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ACTUALIZACION DE LA ESTADISTICA METEOROLOGICA.
TEMPERATURAS DIARIAS

INFORME FINAL

I REGION

FEBRERO, 1991

bf ingenieros civiles

EQUIPO PROFESIONAL

MINISTERIO DE OBRAS PUBLICAS DIRECCION GENERAL DE AGUAS DEPARTAMENTO DE HIDROLOGIA

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ACTUALIZACION DE LA ESTADISTICA METEOROLOGICA TEMPERATURAS DIARIAS

REGION I

1.- INTRODUCCION

Este informe tiene por objetivo describir las actividades desarrolladas y las metodologías empleadas en el análisis de la información de temperaturas diarias y los aspectos mas relevantes del trabajo desarrollado.

Estas regiones incluye 13 estaciones meteorológicas: Caquena, Chucuyo Ex-Endesa, Chilcaya, Coyacagua, Pacollo, Putre, Arica Of. D.G.A., Azapa, Universidad del Norte, El Buitre, Codpa, Pueblo Nuevo P.L., Guatacondo.

Como parte de este informe se entrega primero una descripción general de las actividades emprendidas en el análisis de cada una de las estaciones, para posteriormente entrar en un estudio particular de cada caso.

2.- ACTIVIDADES GENERALES

2.1 Lecturas Directas :

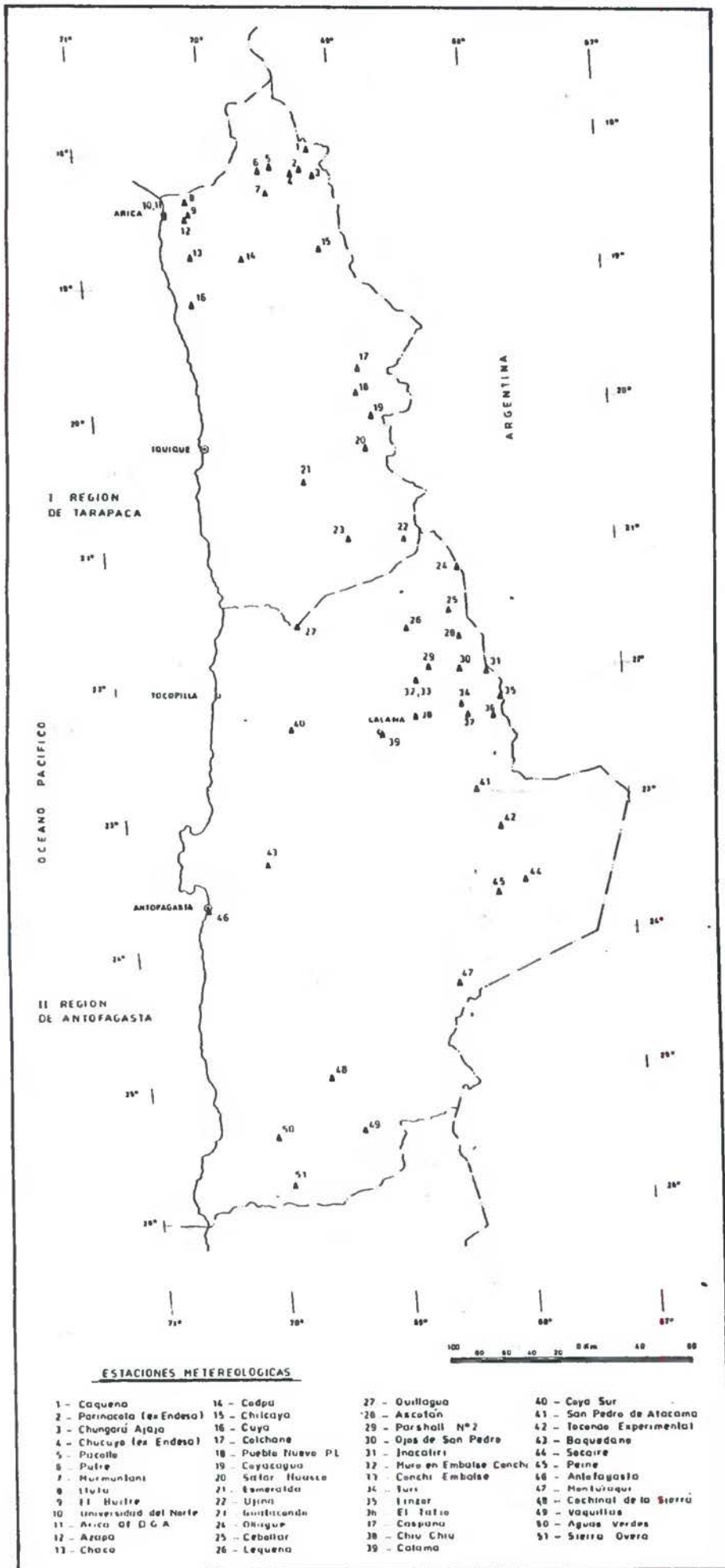
Revisión de formularios en los aspectos de legibilidad y correspondencia con días del mes.

Doble digitación de los formularios M-4. Se revisa en el ingreso que los valores de temperaturas directas máximas sean mayor que los valores de temperaturas directas mínimas.

Verificación por de ambas digitaciones.

Correcciones hasta obtener una estadística depurada de errores de ingreso.

FIG. 1



ESTACIONES METEOROLOGICAS

- | | | | |
|----------------------------|----------------------|-----------------------------|----------------------------|
| 1 - Caquena | 14 - Cadpa | 27 - Quillagua | 40 - Coya Sur |
| 2 - Parrinola (ex Endesa) | 15 - Chicaya | 28 - Ascotán | 41 - San Pedro de Atacama |
| 3 - Chungará Ajaja | 16 - Cuya | 29 - Parshall N°2 | 42 - Iocenas Experimental |
| 4 - Chucuyo (ex Endesa) | 17 - Colchane | 30 - Ojos de San Pedro | 43 - Baquedano |
| 5 - Pucolle | 18 - Pueblo Nuevo PL | 31 - Inacatri | 44 - Secaire |
| 6 - Putre | 19 - Coyacagua | 32 - Muro en Embalse Conchi | 45 - Peine |
| 7 - Murmionani | 20 - Salar Huasca | 33 - Conchi Embalse | 46 - Antofagasta |
| 8 - Ituta | 21 - Esmeralda | 34 - Turi | 47 - Monturaque |
| 9 - El Huilre | 22 - Ujina | 35 - Izingar | 48 - Cochinal de la Sierra |
| 10 - Universidad del Norte | 23 - Guatacondá | 36 - El Tatio | 49 - Vaquillas |
| 11 - Arica Of. D.G.A. | 24 - Obispe | 37 - Caspana | 50 - Aguas Verdes |
| 12 - Azapa | 25 - Ceballar | 38 - Chiu Chiu | 51 - Sierra Overa |
| 13 - Chaco | 26 - Lequena | 39 - Calama | |

2.2 Registros Termográficos

Interpretación de las bandas semanales, revisando problemas de calaje y desfase horario.

Digitalización de las bandas semanales, 6 valores por día T02, T08, T14, T20, máxima y mínima.

Verificación de que la mínima y máxima sea consecuente con los demás valores leídos del día.

Correcciones hasta obtener una estadística depurada de errores de ingreso.

2.3 Formularios Bitácora de Estaciones A-4

Como resultado de los análisis realizados en los puntos 2.1 y 2.2 es posible completar los formularios A-4 "Bitácora de Estaciones", en que se anotan en forma cronológica y detallada todos los eventos acontecidos en cada estación y que afectan la calidad o continuidad de la información disponible. Estas bitácoras se ingresan en medio magnético, tal como se especifica en las bases para su posterior ingreso al BNA.

2.4 Validación e ingreso información al BNA

Luego de verificada la información de lecturas directas y termogramas, se procede a la validación de la misma mediante análisis que se detallan para cada estación. Con la información validada se procede a la transformación de los archivos al formato de grabación definido en las bases de la propuesta, procediéndose al ingreso al Banco Nacional De Aguas (BNA).

2.5 Listados de la estadística

Se entregan los listados de la estadística, obtenidos como resultado del proceso de ingreso de la información al BNA:

- Listado de lecturas directas
- Listado de máximas y mínimas de termogramas
- Listado de lecturas sinópticas de termogramas

2.6 Generalidades Validación

Se ha efectuado una entre las lecturas del higrómetro y las lecturas directas en el período que les es común, usando el período total de información existente.

Se ha considerado como diferencia aceptable entre las lecturas un valor de 1.5° , lo que corresponde al error de lectura esperado en la lectura del termograma, teniendo en cuenta que el instrumento tiene un error propio de 0.5° y que un grado en el termograma es equivalente a 1 milímetro, sumado a esto que el calaje semana a semana posee errores del orden de 1° o más. La decisión de atribuir correcciones a las lecturas por posibles descalibraciones en el amplificador del instrumento, se ve desestimada debido a que se tiene que detectar una diferencia significativa mayor a 1° en forma sistemática y además que existiendo lecturas directas serán estas las que incorporará el BNA a sus listados de salida.

Del análisis y revisión de las diferencias mayores a 1.5°

producidas, se han detectado los siguientes casos como causales de descarte de información:

- Caso 1: Si la temperatura mínima del día se produce después de las 8 AM, y como la norma es medirla a las 8 AM, el valor de lectura directa se descarta, ya que el valor medido no representa el mínimo del día.

- Caso 2: Al no normalizar el termómetro de mínima el día anterior y si la temperatura a las 8 AM del día anterior es menor que la mínima del día, no se captará la mínima del día sino que una temperatura en la vecindad de las 8 AM del día anterior, por lo cual se descarta esta lectura directa.

- Caso 3: Si en un determinado termograma se encuentra un valor anómalo, estando todos los demás dentro del rango definido y posteriormente se comprueba que el termograma está correctamente leído, se supondrá un error de lectura directa del operador por lo que se descartará ese valor.

En general se ha adoptado el criterio de que primeramente se determinan los coeficientes de corrección de los termogramas y luego de aplicados estos factores, todos los valores de lecturas directas cuyas diferencias con las temperaturas de termogramas queden fuera del rango ± 1.9 se eliminan.

3.- ESTACIONES ACTUALIZADAS

3.1 Estación Caquena

3.1.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur $18^{\circ} 03'$ y Longitud Oeste $69^{\circ} 12'$ a una altura de 4400 msnm.

Posee estadística de lecturas directas a partir de 01/01/76 y registro termográficos desde 04/10/76.

3.1.2 Información existente

La tabla 1 muestra la información existente de la estación de lecturas directas, la que totaliza 134 meses. La tabla 2 muestra la información existente de termogramas la que totaliza 143 meses.

3.1.3 Información traducida

En esta estación existe un período de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero 1986 a Diciembre 1989, a excepción de los meses Septiembre 1986 a Diciembre 1986, Febrero 1987 a Agosto 1987 (37 meses) y registros termográficos desde Octubre de 1976 a Noviembre de 1984, con excepción de Septiembre y Octubre de 1978, Junio de 1979, Agosto y Noviembre de 1980 y Noviembre de 1982 (92 meses). Por lo tanto la traducción por parte del consultor abarca 109 meses de lecturas directas y 51 meses de registros termográficos.

3.1.4 Validación

Se ha efectuado una comparación entre las lecturas del higrómetrografo y las lecturas directas en el período que les es común, usando el período total de información existente.

Se detectó y corrigió un desplazamiento de lecturas directas máximas que va desde el 13/09/85 al 07/01/87.

Los factores de corrección aplicados a los termogramas se muestran en la tabla 3.

Después de aplicadas los factores de corrección mediante un proceso computacional se ha descartado todos los valores de Lecturas directas máximas y mínimas fuera del rango ± 1.9 . Se incluye un listado con el detalle de los valores eliminados.

Además se ha comparado las lecturas directas con los valores de termogramas traducidos con anterioridad por la DGA, en el período anterior a Diciembre 1984, con lo cual se han eliminado los valores de lecturas directas que al compararlos con los valores de los termogramas previamente ingresados por la DGA, dan una diferencia mayor a ± 1.9 . Se incluye el listado de los valores eliminados.

En el período Octubre de 1979 a Diciembre de 1980, se observa que a pesar de que los valores de lecturas directas están dentro del rango del higrómetro, los promedios se escapan significativamente de la tendencia histórica, por lo cual se ha decidido eliminar este período en lecturas directas.

Se incluye un listado de los promedios mensuales y desviaciones estándar para las lecturas directas y termográficas en todo el período.

ESTACION CAQUENA

TABLA 1

LECTURAS DIRECTAS			
MAXIMAS DESDE	HASTA	MINIMAS DESDE	HASTA
1/1/76	23/1/76	1/1/76	24/1/76
3/2/76	31/3/76	3/2/76	31/3/76
4/10/76	19/11/76	5/10/76	19/11/76
1/12/76	23/1/77	1/12/76	24/1/77
3/2/77	31/3/77	3/2/77	31/3/77
1/5/77	10/9/79	1/5/77	10/9/79
24/9/79	7/11/79	24/9/79	31/7/80
9/11/79	31/7/80	1/10/80	31/10/80
1/10/80	31/10/80	1/12/80	31/12/80
1/12/80	31/12/80	1/2/81	31/8/81
1/2/81	31/8/81	18/10/81	19/9/82
18/10/81	19/9/82	27/9/82	6/10/85
27/9/82	6/10/85	1/11/85	31/10/86
1/11/85	31/10/86	1/1/87	31/1/87
1/1/87	31/1/87	24/9/87	20/12/87
25/9/87	20/12/87	1/1/88	31/12/88
11/2/88	31/12/88		

ESTACION CAQUENA

TABLA 2

TERMOGRAMAS

DESDE	HASTA
4/10/76	29/11/76
6/12/76	23/1/77
1/2/77	21/8/78
6/11/78	10/12/78
11/12/78	8/1/79
12/1/79	28/5/79
2/7/79	6/8/79
13/8/79	10/9/79
24/9/79	26/5/80
2/6/80	28/7/80
22/9/80	27/10/80
23/11/80	6/12/80
7/12/80	29/12/80
26/1/81	12/7/81
13/7/81	31/8/81
28/9/81	23/11/81
30/11/81	10/5/81
11/5/82	13/2/84
20/2/84	8/3/84
12/3/84	27/1/85
28/1/85	16/9/85
17/9/85	9/10/85
20/2/86	26/5/86
9/6/86	23/6/86
24/6/86	30/6/86
7/7/86	21/10/86
23/10/86	27/10/86
5/1/87	8/1/87
28/9/87	27/10/87
28/12/87	11/12/89

TABLA 3

FACTORES DE CORRECCION

INICIO	TERMINO	FC
01 06 81	29 06 81	+3.0
22 11 82	30 11 82	+1.0
03 12 84	10 12 84	-2.0
10 12 84	17 12 84	+2.0
07 01 85	14 01 85	+1.0
14 01 85	21 01 85	-1.5
08 07 85	15 07 85	-2.0
23 09 85	30 09 85	-2.0
30 09 85	07 10 85	-1.0
31 03 86	07 04 86	+1.0
23 06 86	30 06 86	+3.0
07 07 86	21 07 86	+4.0
21 07 86	28 07 86	+5.0
28 07 86	04 08 86	+2.5
21 10 86	27 10 86	-2.0
16 11 87	23 11 87	-1.0
14 12 87	21 12 87	-2.0
21 12 87	28 12 87	-2.5
28 12 87	04 01 88	-8.0
04 01 88	11 01 88	-6.0
11 01 88	01 02 88	-2.0
01 02 88	08 02 88	-4.0
29 02 88	07 03 88	-2.0
28 03 88	11 04 88	-1.0
23 05 88	30 05 88	-2.0
06 06 88	20 06 88	-2.0
20 06 88	27 06 88	+1.5
27 06 88	04 07 88	-3.0
04 07 88	22 08 88	-2.0
22 08 88	29 08 88	-1.5
29 08 88	19 09 88	-3.0
19 09 88	10 10 88	-2.0
10 10 88	17 10 88	-4.0
17 10 88	24 10 88	-1.5
24 10 88	07 11 88	-2.5
07 11 88	14 11 88	-1.0
13 02 89	20 02 89	-1.0
27 03 89	03 04 89	-1.5
01 05 89	08 05 89	-2.0
19 06 89	26 06 89	-1.0
26 06 89	10 07 89	-2.5
10 07 89	24 07 89	-1.0
07 08 89	04 09 89	-1.5
11 09 89	18 09 89	-1.5
26 09 89	09 10 89	-1.5
30 10 89	06 11 89	-1.5

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CAQUENA

CODIGO: 01001050 0

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
76	1	0.00	0	0.000	0.00	0	0.000
77	1	11.98	23	2.083	-2.58	24	2.579
78	1	12.76	29	1.921	0.21	28	2.183
79	1	11.23	13	1.481	-1.61	18	1.243
80	1	0.00	0	0.000	0.00	0	0.000
81	1	0.00	0	0.000	0.00	0	0.000
82	1	12.21	26	2.164	0.77	19	1.850
83	1	17.29	29	1.873	-3.45	31	2.123
84	1	10.63	12	2.327	-0.42	26	0.703
85	1	14.21	21	2.190	-3.55	23	2.283
86	1	10.15	31	1.664	-0.35	31	0.915
87	1	11.53	28	2.772	-3.68	29	3.897
88	1	0.00	0	0.000	-2.63	23	3.764
89	1	12.70	24	1.505	-1.69	20	1.727
76	2	0.00	0	0.000	0.00	0	0.000
77	2	6.45	26	4.848	-4.40	26	1.745
78	2	14.00	15	2.420	-1.67	18	3.162
79	2	11.25	22	1.951	-4.81	16	2.136
80	2	0.00	0	0.000	0.00	0	0.000
81	2	11.98	10	1.912	-4.50	2	1.414
82	2	14.42	23	1.708	-2.65	17	2.579
83	2	16.52	22	2.509	-3.06	27	2.276
84	2	10.13	20	2.182	-0.26	25	1.522
85	2	11.90	21	1.572	1.94	22	1.417
86	2	9.99	24	1.239	-0.63	27	0.926
87	2	0.00	0	0.000	0.00	0	0.000
88	2	15.69	16	1.145	-4.49	7	1.704
89	2	11.82	25	1.851	-1.08	18	1.208
76	3	0.00	0	0.000	0.00	0	0.000
77	3	5.27	31	1.723	-6.92	30	2.507
78	3	12.68	16	1.316	-2.17	9	1.732
79	3	10.42	19	1.539	-3.27	26	2.393
80	3	0.00	0	0.000	0.00	0	0.000
81	3	13.36	17	1.427	-5.93	6	2.026
82	3	17.42	30	2.190	1.13	28	2.634
83	3	18.14	28	2.050	-3.66	28	2.126
84	3	12.00	5	0.707	6.50	1	0.000
85	3	14.41	21	2.503	0.30	23	1.841
86	3	11.81	22	1.559	0.01	28	1.703
87	3	0.00	0	0.000	0.00	0	0.000
88	3	11.92	31	2.383	1.49	11	0.689
89	3	12.15	31	1.707	-0.87	9	1.025
76	4	0.00	0	0.000	0.00	0	0.000
77	4	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CAQUENA

CODIGO: 01001050 0

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
78	4	12.82	25	2.007	-4.75	16	2.726
79	4	10.21	19	1.960	-8.52	25	2.417
80	4	0.00	0	0.000	0.00	0	0.000
81	4	11.53	20	1.407	-8.16	12	1.504
82	4	16.09	28	1.564	0.00	15	1.496
83	4	16.90	24	1.800	-5.54	29	1.816
84	4	15.50	4	2.646	6.00	1	0.000
85	4	13.74	27	1.564	-0.54	15	2.260
86	4	12.31	20	1.039	-3.83	19	2.586
87	4	0.00	0	0.000	0.00	0	0.000
88	4	12.67	28	1.776	1.00	2	0.000
89	4	11.36	27	2.191	-4.13	16	1.679
76	5	0.00	0	0.000	0.00	0	0.000
77	5	5.23	28	1.691	-13.59	27	1.532
78	5	9.29	30	2.432	-8.01	29	2.737
79	5	9.00	24	0.978	-12.43	23	1.647
80	5	0.00	0	0.000	0.00	0	0.000
81	5	14.00	8	0.000	-7.33	12	2.605
82	5	12.03	28	2.208	-7.52	21	1.647
83	5	12.13	27	2.294	-8.62	26	2.617
84	5	13.42	10	1.175	-2.98	4	4.804
85	5	13.67	28	1.317	-3.58	22	1.976
86	5	10.70	23	1.486	-8.71	28	3.435
87	5	0.00	0	0.000	0.00	0	0.000
88	5	11.10	27	2.546	-5.90	2	2.121
89	5	10.88	24	1.544	-7.07	12	1.765
76	6	0.00	0	0.000	0.00	0	0.000
77	6	9.95	10	2.507	-14.40	5	3.050
78	6	9.73	29	1.685	-7.96	28	1.888
79	6	8.95	30	1.489	-8.60	30	2.253
80	6	0.00	0	0.000	0.00	0	0.000
81	6	13.69	7	0.474	-8.60	5	1.517
82	6	11.52	27	2.260	-7.50	26	2.546
83	6	8.66	27	2.180	-10.51	25	2.960
84	6	9.12	18	2.330	-7.91	19	2.209
85	6	10.82	19	2.007	-5.27	10	2.896
86	6	10.85	22	1.074	-10.77	25	1.647
87	6	0.00	0	0.000	0.00	0	0.000
88	6	9.78	20	1.967	-12.15	4	0.661
89	6	9.89	28	1.443	-6.16	5	0.817
76	7	0.00	0	0.000	0.00	0	0.000
77	7	9.73	26	2.069	-8.00	4	0.816
78	7	9.32	28	1.827	-10.61	30	2.798
79	7	8.09	23	1.756	-9.15	20	2.661

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CAQUENA

CODIGO: 01001050 0

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
80	7	0.00	0	0.000	0.00	0	0.000
81	7	12.17	13	2.363	-10.39	14	2.753
82	7	13.34	29	1.691	-7.09	29	2.342
83	7	9.50	29	2.625	-10.61	27	2.250
84	7	9.76	20	1.343	-8.68	20	1.248
85	7	11.10	11	0.797	-10.22	5	2.686
86	7	12.16	18	1.191	-3.29	10	0.817
87	7	0.00	0	0.000	0.00	0	0.000
88	7	10.26	28	2.051	0.00	0	0.000
89	7	8.68	29	1.792	-7.73	3	2.610
76	8	0.00	0	0.000	0.00	0	0.000
77	8	10.41	29	2.510	-11.00	1	0.000
78	8	10.03	29	1.762	-6.60	30	1.940
79	8	7.73	15	1.438	-15.89	18	2.272
80	8	0.00	0	0.000	0.00	0	0.000
81	8	8.29	18	3.742	-9.83	18	3.819
82	8	14.27	31	2.228	-6.57	30	1.690
83	8	12.39	28	2.119	-8.57	29	2.594
84	8	9.46	23	1.426	-8.32	23	2.688
85	8	14.45	22	1.914	-5.27	3	1.361
86	8	12.84	11	1.804	-8.67	12	2.015
87	8	0.00	0	0.000	0.00	0	0.000
88	8	13.66	30	1.836	0.00	0	0.000
89	8	10.79	28	1.402	-6.00	1	0.000
76	9	0.00	0	0.000	0.00	0	0.000
77	9	12.35	27	2.339	-3.00	1	0.000
78	9	0.00	0	0.000	0.00	0	0.000
79	9	6.06	16	1.914	-15.74	27	2.611
80	9	0.00	0	0.000	0.00	0	0.000
81	9	0.00	0	0.000	0.00	0	0.000
82	9	14.38	21	2.296	-4.64	21	1.956
83	9	11.50	28	3.297	-5.77	26	3.743
84	9	11.53	15	1.967	-7.68	18	1.507
85	9	13.34	21	1.636	-9.08	10	1.742
86	9	12.72	10	1.289	-5.79	9	0.852
87	9	13.65	6	2.495	-11.07	6	1.108
88	9	12.65	25	2.075	-2.00	2	4.525
89	9	12.23	30	1.828	-5.10	2	3.253
76	10	12.73	27	1.632	-8.83	27	2.294
77	10	14.47	26	1.927	-2.14	7	3.532
78	10	0.00	0	0.000	0.00	0	0.000
79	10	0.00	0	0.000	0.00	0	0.000
80	10	0.00	0	0.000	0.00	0	0.000
81	10	15.59	12	1.236	-3.77	11	1.694

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CAQUENA

CODIGO: 01001050 0

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
82	10	16.87	27	1.944	-2.07	29	2.520
83	10	15.43	28	2.595	-6.33	29	2.010
84	10	12.77	12	1.772	-3.13	22	1.667
85	10	13.86	5	1.907	-5.17	3	1.041
86	10	12.93	16	1.784	-7.97	19	1.805
87	10	14.38	28	2.345	-10.00	1	0.000
88	10	14.08	24	1.843	0.00	0	0.000
89	10	14.72	27	1.013	-5.20	2	0.283
76	11	12.49	19	1.575	-9.09	16	1.393
77	11	14.23	28	1.745	0.00	8	2.828
78	11	0.00	0	0.000	-4.36	28	2.752
79	11	0.00	0	0.000	0.00	0	0.000
80	11	0.00	0	0.000	0.00	0	0.000
81	11	16.00	15	1.690	-3.82	28	2.420
82	11	18.63	30	1.581	0.34	25	1.179
83	11	14.75	28	1.908	-8.43	28	1.834
84	11	13.00	14	1.614	-3.19	15	1.950
85	11	13.20	30	2.201	-2.90	30	1.654
86	11	0.00	0	0.000	0.00	0	0.000
87	11	15.76	27	1.972	0.00	0	0.000
88	11	15.22	27	1.325	0.00	0	0.000
89	11	14.38	27	1.458	-5.60	2	0.283
76	12	12.47	25	2.185	-4.85	23	3.178
77	12	13.32	25	2.786	-0.12	17	3.140
78	12	12.57	21	2.271	-3.69	26	2.363
79	12	0.00	0	0.000	0.00	0	0.000
80	12	0.00	0	0.000	0.00	0	0.000
81	12	15.82	31	2.818	-2.02	29	2.688
82	12	17.27	22	1.674	-3.11	14	2.521
83	12	14.09	27	2.333	-5.08	30	2.089
84	12	13.47	24	1.124	-3.08	21	1.107
85	12	8.77	31	2.341	-3.99	31	1.212
86	12	13.00	1	0.000	0.00	0	0.000
87	12	16.88	13	1.464	-8.57	12	2.538
88	12	14.04	30	1.899	-2.00	8	2.127
89	12	15.13	28	2.562	-7.56	20	3.627

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CAQUENA

CODIGO: 01001050 0

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
76	1	0.00	0	0.000	0.00	0	0.000
77	1	12.46	23	2.328	-2.53	23	2.668
78	1	12.52	31	1.719	0.58	31	2.085
79	1	9.89	30	1.741	-1.07	31	1.438
80	1	6.77	31	2.094	-10.40	31	3.331
81	1	11.17	6	2.041	1.17	6	1.169
82	1	11.99	31	1.893	-0.63	31	2.683
83	1	16.20	31	1.960	-2.99	31	1.997
84	1	10.16	31	1.985	-0.57	31	1.450
85	1	13.24	28	3.028	-2.73	29	2.707
86	1	0.00	0	0.000	0.00	0	0.000
87	1	13.75	2	0.354	-1.10	3	1.217
88	1	12.16	31	2.597	-1.36	31	1.710
89	1	11.96	31	1.815	-0.79	31	1.552
76	2	0.00	0	0.000	0.00	0	0.000
77	2	6.94	26	5.098	-4.60	26	1.657
78	2	12.49	28	3.135	-0.48	28	2.709
79	2	11.60	25	1.572	-5.31	25	2.287
80	2	5.71	28	1.547	-11.16	28	2.802
81	2	10.33	26	1.778	-0.20	26	1.390
82	2	14.07	28	1.812	-2.59	28	2.888
83	2	15.46	28	2.564	-2.59	28	2.279
84	2	9.17	20	2.925	-1.27	20	1.545
85	2	12.30	28	2.027	1.59	28	1.494
86	2	12.18	9	2.252	-0.89	7	1.469
87	2	0.00	0	0.000	0.00	0	0.000
88	2	14.10	28	3.241	-3.35	28	2.056
89	2	11.40	28	1.712	-0.83	28	1.807
76	3	0.00	0	0.000	0.00	0	0.000
77	3	5.65	31	1.815	-7.23	31	2.629
78	3	12.36	31	1.732	-1.42	30	3.551
79	3	8.96	23	1.637	-3.05	21	2.495
80	3	3.81	31	2.623	-8.56	31	2.364
81	3	11.63	30	1.778	-2.90	31	3.055
82	3	16.95	31	1.955	1.18	31	2.330
83	3	17.20	31	1.826	-3.02	31	2.092
84	3	11.19	26	2.207	1.60	26	3.241
85	3	14.67	31	2.358	-0.07	31	1.616
86	3	11.52	31	1.809	-0.76	31	1.735
87	3	0.00	0	0.000	0.00	0	0.000
88	3	11.37	31	2.348	-0.54	31	2.057
89	3	12.04	31	1.839	-0.43	31	1.357
76	4	0.00	0	0.000	0.00	0	0.000
77	4	6.94	30	1.335	-11.85	30	1.964

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CAQUENA

CODIGO: 01001050 0

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
78	4	12.07	30	1.783	-4.76	30	3.095
79	4	9.84	30	1.992	-8.00	30	2.145
80	4	4.42	30	2.036	-13.21	30	2.483
81	4	10.60	30	1.973	-5.22	30	3.118
82	4	15.17	30	2.248	-2.06	30	2.779
83	4	15.73	30	1.926	-5.15	30	1.893
84	4	13.04	29	3.893	1.64	28	3.245
85	4	14.20	30	1.500	-2.25	30	2.755
86	4	12.22	30	1.247	-3.91	30	2.411
87	4	0.00	0	0.000	0.00	0	0.000
88	4	12.33	30	2.052	-2.58	30	2.893
89	4	10.62	30	2.385	-2.98	30	1.811
76	5	0.00	0	0.000	0.00	0	0.000
77	5	4.49	31	2.862	-13.79	31	1.497
78	5	9.18	31	2.487	-7.92	31	2.693
79	5	8.56	27	1.069	-11.50	27	1.758
80	5	3.60	25	2.205	-14.81	25	2.459
81	5	11.19	31	1.439	-8.28	31	2.000
82	5	11.76	30	2.483	-6.56	30	2.674
83	5	11.24	31	1.994	-8.03	31	2.665
84	5	12.06	30	3.531	-0.92	31	4.789
85	5	13.67	31	1.112	-4.28	31	1.939
86	5	10.35	25	1.872	-8.24	25	2.457
87	5	0.00	0	0.000	0.00	0	0.000
88	5	10.11	31	2.647	-6.48	31	2.628
89	5	10.48	31	2.126	-5.47	31	1.986
76	6	0.00	0	0.000	0.00	0	0.000
77	6	5.95	30	3.670	-14.14	30	2.819
78	6	9.34	30	1.629	-7.96	30	1.909
79	6	0.00	0	0.000	0.00	0	0.000
80	6	2.81	29	1.829	-16.92	29	1.805
81	6	12.49	28	2.298	-8.78	29	2.270
82	6	11.05	30	2.338	-7.21	30	2.472
83	6	7.79	30	2.247	-9.17	30	3.385
84	6	8.42	30	2.516	-6.94	30	2.409
85	6	10.18	30	2.031	-5.82	30	2.232
86	6	9.76	20	1.376	-11.99	20	1.886
87	6	0.00	0	0.000	0.00	0	0.000
88	6	10.03	30	3.296	-6.77	30	2.990
89	6	9.66	30	1.469	-5.79	30	2.177
76	7	0.00	0	0.000	0.00	0	0.000
77	7	9.06	31	1.994	-9.33	31	2.191
78	7	8.81	31	2.088	-10.57	31	3.041
79	7	7.58	30	2.367	-10.03	29	2.375

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CAQUENA

CODIGO: 01001050 0

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
80	7	0.91	27	2.066	-15.33	27	2.337
81	7	10.61	30	1.981	-11.09	30	3.002
82	7	12.69	31	1.713	-6.92	31	2.667
83	7	8.77	31	2.519	-9.77	31	2.272
84	7	9.05	31	1.457	-8.71	31	1.326
85	7	9.66	31	2.279	-10.08	31	1.578
86	7	11.13	25	2.076	-9.05	24	2.690
87	7	0.00	0	0.000	0.00	0	0.000
88	7	9.51	31	1.971	-7.27	31	1.733
89	7	8.35	31	1.760	-6.52	31	1.862
76	8	0.00	0	0.000	0.00	0	0.000
77	8	9.98	31	2.553	-9.73	31	2.390
78	8	9.98	20	1.982	-6.94	20	1.878
79	8	5.59	30	2.134	-15.50	31	2.655
80	8	0.00	0	0.000	0.00	0	0.000
81	8	9.05	30	3.628	-8.61	30	3.302
82	8	13.61	31	2.182	-6.32	31	1.598
83	8	11.58	31	2.333	-7.73	31	2.652
84	8	8.45	31	1.645	-7.51	31	2.357
85	8	12.99	31	2.345	-7.00	31	2.302
86	8	10.96	29	2.946	-7.52	30	2.543
87	8	0.00	0	0.000	0.00	0	0.000
88	8	12.91	31	1.903	-5.22	31	2.125
89	8	9.92	31	1.717	-6.22	31	2.108
76	9	0.00	0	0.000	0.00	0	0.000
77	9	11.95	30	2.040	-8.16	30	2.208
78	9	0.00	0	0.000	0.00	0	0.000
79	9	5.53	16	1.910	-14.74	16	2.909
80	9	4.92	9	1.038	-14.93	9	2.961
81	9	10.50	3	1.323	-3.67	3	2.255
82	9	13.13	30	2.682	-3.77	30	2.744
83	9	10.51	30	3.389	-5.96	30	3.679
84	9	10.37	30	1.681	-7.77	30	1.668
85	9	12.25	29	1.916	-6.31	29	2.631
86	9	12.19	30	2.043	-5.03	30	2.907
87	9	14.27	3	2.309	-6.40	1	0.000
88	9	11.78	29	1.903	-4.08	29	2.586
89	9	11.99	30	1.903	-5.20	30	2.199
76	10	12.98	28	1.650	-9.26	28	2.179
77	10	14.32	30	2.403	-4.31	30	2.703
78	10	0.00	0	0.000	0.00	0	0.000
79	10	5.03	30	2.626	-11.66	31	4.459
80	10	11.48	26	3.935	-7.91	26	5.482
81	10	14.10	31	2.114	-5.05	31	2.099

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CAQUENA

CODIGO: 01001050 0

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
82	10	15.97	31	1.717	-1.55	31	2.829
83	10	14.77	30	2.532	-5.95	31	1.840
84	10	11.66	31	1.841	-2.98	31	1.943
85	10	15.15	8	1.757	-5.41	9	1.490
86	10	14.14	23	2.130	-5.85	25	2.366
87	10	14.02	31	2.660	-6.08	31	2.711
88	10	12.92	31	1.835	-4.19	31	2.255
89	10	14.45	31	0.975	-3.41	31	1.814
76	11	13.61	28	1.469	-8.40	28	2.665
77	11	15.00	30	1.707	-2.09	29	2.656
78	11	12.39	25	1.951	-4.03	24	3.080
79	11	6.96	30	2.772	-11.65	30	4.608
80	11	17.01	7	1.368	-2.13	7	1.965
81	11	13.70	27	2.290	-3.98	27	2.146
82	11	18.85	30	1.697	0.35	30	1.631
83	11	13.85	30	1.728	-7.80	30	2.195
84	11	11.73	30	2.235	-1.94	30	2.467
85	11	0.00	0	0.000	0.00	0	0.000
86	11	0.00	0	0.000	0.00	0	0.000
87	11	15.49	30	2.133	-3.18	30	1.941
88	11	14.68	30	1.253	-4.13	30	1.584
89	11	14.03	30	1.342	-3.07	30	1.942
76	12	12.14	26	1.995	-4.29	24	3.462
77	12	14.30	31	2.355	-2.07	31	2.895
78	12	12.07	29	1.940	-2.80	27	2.635
79	12	5.39	31	3.321	-9.86	31	2.735
80	12	13.75	26	1.890	-5.20	26	2.365
81	12	15.47	31	2.754	-1.74	31	2.731
82	12	16.70	31	2.062	-2.09	31	3.220
83	12	13.17	31	2.276	-4.93	31	2.108
84	12	13.43	29	1.466	-3.04	31	1.755
85	12	0.00	0	0.000	0.00	0	0.000
86	12	0.00	0	0.000	0.00	0	0.000
87	12	14.97	29	2.099	-5.78	29	2.579
88	12	14.10	31	1.854	-1.48	31	2.090
89	12	16.06	7	1.220	-1.99	7	1.351

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1976)
 ESTACION: CAQUENA CODIGO : 01001050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1977)

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1976)													LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1977)												
DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	11	01	01	01	01	00	01
2	00	00	00	00	00	00	00	00	00	00	00	01	2	00	00	00	00	01	11	00	01	01	11	01	01
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	11	01	01	01	00	01	00
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	11	01	01	01	11	01	00
5	00	00	00	00	00	00	00	00	00	00	00	01	5	00	00	00	00	00	11	01	01	00	01	01	10
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	11	01	01	01	01	01	01
7	00	00	00	00	00	00	00	00	00	00	00	10	7	00	00	00	00	00	00	11	01	01	11	00	11
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	11	11	01	01	01	01	01
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	01	11	10	01	01	01	01	01
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	10	11	01	01	01	00	11
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	11	01	01	01	01	11	00
12	00	00	00	00	00	00	00	00	00	00	00	01	12	00	00	00	00	00	11	01	01	01	01	01	01
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	11	01	01	01	01	01	00
14	00	00	00	00	00	00	00	00	00	00	00	01	14	00	00	00	00	00	11	01	01	01	01	00	00
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	11	00	01	01	01	11	00
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	01	01	01	01	01	00	00
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	10	01	01	01	10	01	01
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	11	01	11	01	01	01	01
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	00	11	01	01	01	01	01	01
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	10	01	11	01	01	01	01
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	01	01	01	01	00	00	00
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	01	01	01	01	10	01	00
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	01	01	01	01	01	01	01	10
24	00	00	00	00	00	00	00	00	00	00	10	00	24	00	00	00	00	00	01	01	01	01	01	01	00
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	10	01	01	01	01	01	01
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	01	01	01	11	01	01	01
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	01	01	01	01	01	01	10
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	01	11	01	01	01	01	00
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	01	00	00	01	01	01	11	01	01	11
30	00	00	00	00	00	00	00	00	00	00	00	01	30	00	00	00	00	11	01	01	01	11	01	01	00
31	00	00	00	00	00	00	00	00	00	00	00	01	31	00	00	00	00	00	00	00	00	01	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1978)

ESTACION: CAQUEMA

CODIGO : 01001050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1979)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC			
1	1	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	1	1	1	1				
2	0	0	0	0	1	0	0	0	0	0	0	0	1	2	1	0	0	0	0	1	0	0	1	1	1			
3	0	0	0	0	1	0	0	0	0	0	0	0	1	3	0	1	0	0	0	1	0	0	1	1	1			
4	0	0	0	1	1	0	0	0	0	0	0	0	1	4	1	1	0	0	0	0	0	0	1	1	1			
5	0	0	0	1	1	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	1	1	1		
6	0	0	0	1	0	0	0	0	0	0	0	0	1	6	1	0	0	1	0	0	0	0	0	1	1	1		
7	0	1	1	0	0	0	0	0	0	0	0	0	1	7	1	0	0	1	1	0	0	0	0	0	1	1	1	
8	0	0	0	0	1	0	0	0	0	0	0	0	1	8	0	0	0	1	0	0	0	0	0	0	1	1	1	
9	0	0	0	1	1	0	0	0	0	0	0	0	1	9	0	0	1	0	0	1	0	0	0	0	1	1	1	
10	0	0	0	0	1	0	1	0	0	0	0	0	1	10	1	1	0	0	1	1	0	0	0	0	1	1	1	
11	0	1	1	0	0	1	0	0	0	0	0	0	1	11	1	1	0	0	1	0	1	0	0	0	0	1	1	1
12	0	1	0	0	1	0	0	0	0	0	0	0	1	12	0	0	0	0	1	0	1	0	0	1	1	1	1	
13	0	0	0	1	0	0	1	0	0	0	0	0	1	13	1	1	0	1	0	0	0	1	0	0	0	1	1	1
14	0	0	0	1	0	1	0	0	0	0	0	0	1	14	0	1	0	0	0	0	1	0	0	1	1	1	1	
15	0	0	0	0	1	0	1	0	0	0	0	0	1	15	1	1	0	0	0	0	1	0	0	0	1	1	1	
16	0	0	1	0	0	1	0	1	0	0	0	0	1	16	1	1	0	0	1	0	0	0	0	0	1	1	1	
17	0	0	1	1	0	0	0	0	0	0	0	0	1	17	1	0	0	1	0	0	0	0	1	1	1	1	1	
18	0	0	1	1	0	0	0	0	0	0	0	0	1	18	0	0	0	1	0	0	0	0	0	1	1	1	1	
19	0	0	0	1	0	0	0	0	0	0	0	0	1	19	0	0	0	0	0	0	0	0	0	1	1	1	1	
20	1	0	1	0	0	1	0	0	0	0	0	0	1	20	1	0	0	0	1	0	0	0	0	1	1	1	1	
21	0	0	1	1	0	1	0	0	0	0	0	0	1	21	0	1	0	1	0	1	0	0	0	1	1	1	1	
22	0	0	1	1	0	1	0	0	0	0	0	0	1	22	1	0	0	1	0	0	1	0	0	1	1	1	1	
23	0	0	0	1	1	0	0	0	0	0	0	0	1	23	1	1	0	0	0	0	0	0	0	1	1	1	1	
24	0	0	1	0	1	0	0	0	0	0	0	0	1	24	1	1	0	1	0	0	0	0	0	0	1	1	1	
25	0	0	1	1	0	0	1	0	0	0	0	0	1	25	1	1	0	0	0	0	0	0	0	1	1	1	1	
26	0	0	1	1	0	1	1	0	0	0	0	0	1	26	0	0	0	0	1	0	0	0	0	0	1	1	1	
27	0	0	1	1	1	0	1	0	0	0	0	0	1	27	0	0	0	1	0	0	0	1	1	1	1	1	1	
28	0	0	1	1	0	1	1	0	0	0	0	0	1	28	1	0	0	1	0	0	0	0	1	1	1	1	1	
29	0	0	0	1	1	0	1	0	0	0	0	0	1	29	0	0	0	1	0	0	0	0	1	0	1	1	1	
30	0	0	0	0	1	1	1	0	0	0	0	0	0	30	0	0	0	1	0	0	0	0	0	1	0	1	1	
31	0	0	0	0	1	0	0	0	0	0	0	0	1	31	0	0	0	0	0	0	0	0	0	1	0	1	1	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1980)
 ESTACION: CAQUENA CODIGO : 01001050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1981)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	11	11	11	11	11	11	11	00	00	11	00	11	1	00	00	01	01	11	01	00	00	00	00	00	
2	11	11	11	11	11	11	11	00	00	11	00	11	2	00	01	01	01	11	00	10	00	00	00	10	00
3	11	11	11	11	11	11	11	00	00	11	00	11	3	00	11	01	01	01	01	10	10	00	00	00	00
4	11	11	11	11	11	11	11	00	00	11	00	11	4	00	11	01	01	01	01	00	00	00	00	11	00
5	11	11	11	11	11	11	11	00	00	11	00	11	5	00	11	11	11	01	00	01	01	00	00	00	00
6	11	11	11	11	11	11	11	00	00	11	00	11	6	00	11	11	01	00	00	00	00	00	00	00	00
7	11	11	11	11	11	11	11	00	00	11	00	11	7	00	01	01	01	10	01	00	00	00	00	00	00
8	11	11	11	11	11	11	11	00	00	11	00	11	8	00	01	01	11	10	01	01	00	00	00	01	00
9	11	11	11	11	11	11	11	00	00	11	00	11	9	00	00	00	11	11	00	10	01	00	00	10	00
10	11	11	11	11	11	11	11	00	00	11	00	11	10	00	11	01	01	10	01	11	10	00	00	10	00
11	11	11	11	11	11	11	11	00	00	11	00	11	11	00	01	01	11	10	01	11	10	00	00	00	00
12	11	11	11	11	11	11	11	00	00	11	00	11	12	00	01	11	11	10	00	00	01	00	00	10	00
13	11	11	11	11	11	11	11	00	00	11	00	11	13	00	01	01	01	11	10	11	10	00	00	10	00
14	11	11	11	11	11	11	11	00	00	11	00	11	14	00	11	00	11	11	11	11	10	00	00	00	00
15	11	11	11	11	11	11	11	00	00	11	00	11	15	00	11	01	11	11	11	00	01	00	00	00	00
16	11	11	11	11	11	11	11	00	00	11	00	11	16	00	11	00	00	11	01	10	00	00	00	00	00
17	11	11	11	11	11	11	11	00	00	11	00	11	17	00	11	11	11	11	00	11	00	00	00	10	00
18	11	11	11	11	11	11	11	00	00	11	00	11	18	00	11	10	01	11	10	01	11	00	01	10	00
19	11	11	11	11	11	11	11	00	00	11	00	11	19	00	11	11	11	10	11	11	11	00	01	10	00
20	11	11	11	11	11	11	11	00	00	11	00	11	20	00	11	11	10	11	01	01	11	00	10	10	00
21	11	11	11	11	11	11	11	00	00	11	00	11	21	00	11	01	00	11	00	11	01	00	01	10	00
22	11	11	11	11	11	11	11	00	00	11	00	11	22	00	11	11	00	11	10	10	11	00	00	10	00
23	11	11	11	11	11	11	11	00	00	11	00	11	23	00	01	11	00	11	11	11	01	00	00	10	00
24	11	11	11	11	11	11	11	00	00	11	00	11	24	00	11	11	00	11	11	11	10	00	00	10	00
25	11	11	11	11	11	11	11	00	00	11	00	11	25	00	01	11	00	01	01	11	10	00	10	10	00
26	11	11	11	11	11	11	11	00	00	11	00	11	26	00	11	01	00	10	01	00	10	00	00	00	01
27	11	11	11	11	11	11	11	00	00	11	00	11	27	00	11	11	00	00	00	11	00	00	00	00	00
28	11	11	11	11	11	11	11	00	00	11	00	11	28	00	11	00	00	00	10	01	01	00	00	00	01
29	11	11	11	11	11	11	11	00	00	11	00	11	29	00	00	00	00	10	10	10	01	00	00	00	00
30	11	00	11	11	11	11	11	00	00	11	00	11	30	00	00	11	00	01	10	00	11	00	00	00	00
31	11	00	11	00	11	00	11	00	00	11	00	11	31	00	00	11	00	10	00	00	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1982)
 ESTACION: CAQUENA CODIGO : 01001050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1983)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	01	00	01	00	00	00	00	00	00	01	1	00	00	00	10	00	00	00	00	00	00	00	
2	00	10	00	00	01	00	00	00	00	00	00	01	2	00	00	00	10	11	00	00	00	00	00	00	
3	00	00	00	00	01	00	01	01	00	00	00	11	3	00	10	00	10	01	11	00	00	00	01	00	
4	00	00	00	00	01	00	00	00	10	10	00	00	4	10	00	00	00	00	10	01	00	10	00	01	
5	00	00	00	00	01	00	00	00	01	00	01	11	5	00	00	00	00	00	11	01	00	00	00	00	
6	01	01	00	00	00	00	00	00	01	00	01	10	6	00	00	00	00	00	00	00	00	00	00	00	
7	01	01	01	00	01	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	10	00	
8	01	00	00	00	00	00	00	00	00	00	00	01	8	10	00	00	00	00	00	00	00	00	10	00	
9	11	01	00	00	00	00	00	00	00	10	00	00	9	00	00	00	00	01	00	00	00	00	00	00	
10	10	01	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	01	10		
11	01	00	00	01	11	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	01	00		
12	00	00	00	01	00	00	00	00	00	00	00	00	12	00	00	10	10	00	01	00	00	00	00	00	
13	00	00	00	01	00	00	00	00	00	00	00	11	13	00	00	10	00	10	00	01	00	00	00	00	
14	00	00	00	01	11	00	00	00	00	00	00	11	14	00	00	00	00	11	00	00	00	11	00	10	
15	00	00	00	01	00	11	00	00	00	00	00	01	15	00	00	00	00	00	00	00	00	01	00	00	
16	10	00	00	01	00	01	01	00	10	10	00	00	16	00	00	01	00	00	00	00	01	01	00	00	
17	00	00	00	01	01	11	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00	00	
18	00	00	00	01	00	00	00	00	00	10	01	01	18	00	11	00	00	00	00	00	10	00	00	00	
19	00	01	01	01	00	11	10	00	00	00	00	01	19	00	00	00	00	00	00	00	10	00	00	00	
20	00	01	00	01	00	00	00	00	00	00	00	10	20	00	00	00	00	00	00	00	00	00	00	00	
21	00	00	00	01	00	00	00	00	00	00	00	11	21	00	10	00	00	00	00	00	00	00	01	00	
22	01	11	00	11	00	00	00	00	00	00	00	11	22	00	10	10	00	10	00	00	00	00	00	10	
23	00	10	00	00	00	00	00	00	00	00	00	00	23	00	00	00	11	00	00	00	00	00	00	00	
24	01	01	00	01	00	00	00	00	00	00	00	10	24	00	00	01	00	01	00	00	00	00	10	00	
25	01	11	00	01	00	00	00	00	00	00	00	01	25	00	00	00	10	00	00	00	00	00	00	00	
26	10	01	00	00	00	00	00	00	00	01	00	00	26	00	10	00	00	00	01	00	00	00	00	00	
27	01	11	00	00	00	00	00	00	00	00	00	01	27	00	00	01	00	00	00	00	00	00	00	00	
28	00	00	00	00	00	00	10	00	00	00	01	00	28	00	10	00	00	00	00	10	01	00	00	00	
29	01	00	10	00	00	00	00	00	00	00	00	01	29	00	00	00	00	00	00	00	00	00	00	00	
30	01	00	00	11	11	00	00	00	00	00	01	01	30	00	00	00	00	00	01	00	00	00	10	00	
31	00	00	00	00	00	00	00	00	00	01	00	01	31	00	00	00	00	00	11	10	00	00	00	00	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1984)

ESTACION: CAHUENA

CODIGO : 01001050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1985)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	10	11	01	11	01	11	00	01	11	11	00
2	00	00	11	01	11	10	01	00	01	00	00	01
3	00	00	11	11	11	00	10	10	00	01	00	10
4	00	00	11	11	11	00	00	01	10	11	10	00
5	00	00	11	11	11	00	00	01	01	00	10	00
6	10	01	11	11	11	00	00	01	10	10	11	00
7	10	00	11	11	11	01	01	10	00	00	01	10
8	10	00	00	01	11	01	00	10	10	10	00	01
9	10	00	00	11	10	01	00	01	00	01	00	00
10	10	00	00	11	01	10	01	00	10	10	01	00
11	11	00	00	11	01	11	10	00	10	10	00	01
12	00	00	00	11	11	11	10	00	00	10	10	00
13	10	00	11	10	11	10	00	00	01	10	01	10
14	00	00	11	10	11	00	01	00	10	00	10	01
15	11	00	11	01	11	01	11	00	10	00	01	01
16	00	00	11	01	01	00	01	01	00	01	01	01
17	10	00	01	11	11	00	00	01	01	11	10	01
18	10	00	11	11	11	00	00	00	00	11	10	10
19	10	00	11	11	11	00	00	10	10	00	11	00
20	00	00	11	11	11	10	00	00	11	10	11	00
21	10	10	11	11	01	00	11	11	11	00	00	01
22	10	10	01	11	01	11	00	00	01	00	11	11
23	10	10	01	11	01	00	00	10	11	10	01	10
24	10	10	11	11	01	10	10	10	10	10	01	00
25	11	11	11	11	01	11	01	00	11	00	10	00
26	10	00	11	11	01	00	10	10	11	11	11	01
27	10	10	01	11	11	11	11	00	00	10	10	00
28	00	11	01	11	00	00	10	00	00	10	10	00
29	00	00	10	10	11	00	10	00	00	11	11	00
30	01	00	11	11	11	10	00	00	11	10	01	10
31	11	00	11	00	01	00	01	01	00	10	00	00

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	10	00	01	00	01	01	11	11	11	01	00	00
2	10	00	11	00	10	01	01	11	11	10	00	00
3	11	01	00	01	00	01	11	11	00	00	00	00
4	11	00	00	11	00	01	01	11	10	00	00	00
5	11	00	00	01	00	01	01	01	01	01	00	00
6	11	00	01	00	00	11	00	01	01	01	00	00
7	11	10	00	01	01	01	01	01	01	01	00	00
8	00	10	10	01	01	01	11	11	11	00	00	00
9	00	11	00	01	01	01	01	01	01	00	00	00
10	00	00	00	01	01	01	01	01	01	01	00	00
11	00	10	00	00	00	00	01	01	01	11	00	00
12	00	00	00	00	11	11	11	01	10	00	00	00
13	00	00	00	00	01	01	01	00	01	00	00	00
14	00	00	11	00	00	01	01	01	01	01	00	00
15	00	10	10	00	00	11	11	01	01	00	00	00
16	00	10	10	01	00	01	10	01	01	00	00	00
17	00	00	00	01	00	11	10	01	00	00	00	00
18	01	10	00	00	00	01	11	11	11	00	00	00
19	00	00	01	00	00	01	11	11	01	00	00	00
20	00	00	01	01	00	01	01	11	11	00	00	00
21	00	01	00	00	00	11	11	01	01	00	00	00
22	10	01	00	00	00	01	11	01	01	00	00	00
23	00	01	01	00	00	11	10	01	11	00	00	00
24	01	00	10	00	00	11	11	01	00	00	00	00
25	00	00	11	00	00	11	11	01	00	00	00	00
26	00	00	00	11	00	11	11	11	00	00	00	00
27	00	00	10	11	00	01	11	01	01	00	00	00
28	10	01	00	01	00	01	11	00	00	00	00	00
29	11	00	00	01	01	11	11	00	01	00	00	00
30	00	00	10	01	10	11	11	01	00	00	00	00
31	00	00	10	00	01	00	10	01	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1986)
 ESTACION: CAQUENA CODIGO : 01001050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1987)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	01	11	10	00	00	1	00	00	00	00	00	00	00	01	01	01		
2	00	00	10	00	00	00	00	01	11	10	00	00	2	00	00	00	00	00	00	00	00	01	11	01	
3	00	00	10	00	00	00	00	01	10	10	00	00	3	00	00	00	00	00	00	00	00	01	11	11	
4	00	00	00	00	00	00	00	10	00	10	00	00	4	00	00	00	00	00	00	00	00	01	01	01	
5	00	00	00	01	11	00	00	11	01	10	00	00	5	00	00	00	00	00	00	00	00	01	01	01	
6	00	00	01	00	00	00	00	11	10	11	00	00	6	11	00	00	00	00	00	00	00	01	01	01	
7	00	00	00	10	00	00	10	01	10	11	00	00	7	11	00	00	00	00	00	00	00	01	01	11	
8	00	00	00	11	01	00	01	00	00	11	00	00	8	00	00	00	00	00	00	00	00	11	01	10	
9	00	00	00	00	00	10	01	10	00	10	00	00	9	00	00	00	00	00	00	00	00	01	01	01	
10	00	00	00	00	00	00	11	11	11	00	00	00	10	00	00	00	00	00	00	00	00	01	01	00	
11	00	00	00	11	00	00	01	10	11	01	00	00	11	00	00	00	00	00	00	00	00	01	01	11	
12	00	00	00	01	00	00	01	10	00	11	00	00	12	00	00	00	00	00	00	00	00	01	01	00	
13	00	00	10	11	00	00	01	10	01	11	00	00	13	00	00	00	00	00	00	00	00	01	01	01	
14	00	00	10	01	10	00	11	10	11	01	00	00	14	00	00	00	00	00	00	00	00	01	01	01	
15	00	00	10	10	10	10	00	10	01	01	00	00	15	00	00	00	00	00	00	00	00	01	01	01	
16	00	00	00	01	00	10	11	10	11	01	00	00	16	00	00	00	00	00	00	00	00	11	01	01	
17	00	00	10	11	00	00	10	10	11	11	00	00	17	00	00	00	00	00	00	00	00	01	01	11	
18	00	00	01	01	00	00	00	01	11	10	00	00	18	00	00	00	00	00	00	00	00	01	01	11	
19	00	00	10	11	10	00	11	11	11	00	00	00	19	00	00	00	00	00	00	00	00	01	01	01	
20	00	00	00	00	00	00	11	11	11	01	00	00	20	00	00	00	00	00	00	00	00	11	01	11	
21	00	11	00	01	10	10	11	11	01	00	00	00	21	00	00	00	00	00	00	00	00	01	01	01	
22	00	00	10	10	10	00	11	11	01	00	00	00	22	00	00	00	00	00	00	00	00	01	01	00	
23	00	10	00	00	10	00	01	00	11	00	00	00	23	00	00	00	00	00	00	00	00	01	01	00	
24	00	10	00	00	10	00	01	11	11	00	00	00	24	00	00	00	00	00	00	00	00	01	01	00	
25	00	00	00	00	00	01	01	00	11	10	00	00	25	00	00	00	00	00	00	00	00	01	01	00	
26	00	00	00	00	01	11	01	01	11	01	00	00	26	00	00	00	00	00	00	00	00	01	11	01	
27	00	10	00	10	00	10	01	11	11	00	00	00	27	00	00	00	00	00	00	00	00	01	01	00	
28	00	00	00	10	00	11	11	11	00	00	00	00	28	00	00	00	00	00	00	00	00	00	01	00	
29	00	00	01	00	00	11	11	11	11	00	00	00	29	00	00	00	00	00	00	00	00	01	01	01	
30	00	00	10	00	00	01	11	01	10	00	00	00	30	00	00	00	00	00	00	00	00	01	01	01	
31	00	00	00	00	00	00	11	01	00	00	00	00	31	00	00	00	00	00	00	00	00	01	00	01	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1988)

ESTACION: CAHUENA

CODIGO : 01001050 0

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC														
1	0	1	0	1	0	1	0	1	0	0	0	1	0	1												
2	0	1	0	0	0	1	0	0	0	1	0	1	0	1												
3	0	1	0	0	0	1	0	1	0	0	0	1	0	1												
4	0	1	0	0	0	1	0	0	0	0	0	0	1	0	1											
5	0	1	0	0	0	1	1	0	0	1	0	1	0	0												
6	0	1	0	0	0	1	0	1	0	0	0	1	0	1												
7	0	1	0	0	0	0	1	1	1	0	0	0	0	1	0	1										
8	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	1										
9	0	1	0	1	0	1	0	1	0	0	1	0	1	0	1	0	1									
10	0	0	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0									
11	0	0	1	1	0	0	1	1	0	1	0	1	0	1	0	1	0									
12	0	1	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0									
13	0	1	0	1	0	1	1	0	1	0	0	0	0	1	1	1	0	1	0	1						
14	0	1	1	1	0	1	0	1	0	0	0	0	1	1	1	0	1	0	1	0	1					
15	0	1	0	1	0	1	1	0	1	0	0	0	0	1	1	1	0	1	0	1	0	1				
16	0	1	0	1	0	1	0	1	0	0	0	0	0	1	1	0	1	0	0	1	0	1				
17	0	0	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1				
18	0	0	0	1	0	0	0	1	0	1	0	1	1	0	1	0	0	0	1	0	1	0	0			
19	0	0	0	1	0	0	0	1	0	1	0	1	0	0	1	0	1	0	1	0	1	1	0	0		
20	0	0	0	1	0	1	0	1	0	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0		
21	0	0	0	1	0	1	0	1	0	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0		
22	0	0	0	1	0	1	0	1	0	0	0	0	1	0	1	1	1	0	0	1	0	1	0	0		
23	0	1	0	1	0	1	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	1	0		
24	0	0	0	1	0	1	0	1	1	1	0	0	0	1	1	1	1	0	1	0	1	0	1	0		
25	0	0	0	1	0	1	0	1	1	1	0	0	0	1	0	1	0	1	0	1	0	1	0	1		
26	0	1	0	1	0	1	0	1	1	1	0	0	0	0	1	0	1	0	0	1	0	1	0	1		
27	0	0	0	1	0	0	0	1	0	1	1	1	0	0	0	1	0	1	0	1	0	1	0	1		
28	0	0	0	1	0	0	0	1	0	1	0	1	0	1	0	1	1	1	0	1	1	1	0	1	0	
29	0	0	0	0	0	1	0	1	0	1	0	0	1	0	1	0	1	0	1	0	1	1	1	0	1	0
30	0	1	0	0	0	0	0	1	0	1	0	1	0	0	1	0	1	0	1	0	1	1	1	0	1	0
31	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1989)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC															
1	0	0	0	0	0	0	1	0	1	0	1	0	1														
2	0	0	0	0	1	0	0	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1					
3	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1	0	1				
4	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1			
5	0	1	0	0	0	1	0	0	1	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0	1		
6	0	1	0	0	0	1	0	0	1	0	1	0	0	0	1	0	1	0	0	1	0	1	0	1	0	1	
7	0	1	0	1	0	0	0	1	0	0	0	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	
8	0	1	0	0	0	1	0	0	1	1	0	1	0	1	0	1	0	1	0	1	0	0	0	0	0	0	
9	0	1	0	1	0	1	0	0	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0	
10	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	
11	0	0	0	0	0	0	0	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0	
12	0	0	0	0	0	0	0	1	1	1	0	1	0	1	0	1	0	1	0	0	0	1	0	1	0	0	
13	0	0	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0	
14	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	
15	1	0	0	0	1	0	1	0	0	0	1	1	1	1	0	1	0	1	0	1	0	1	0	1	0	0	
16	0	1	0	1	0	1	0	0	0	0	0	1	1	0	1	0	0	0	1	0	1	0	1	0	1	0	
17	0	1	0	1	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0	
18	0	0	0	0	1	0	1	0	1	1	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	
19	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	1	0	1	0	1	0	1	0	1	1	0	0
20	1	0	0	0	1	0	0	0	1	0	1	0	1	0	1	1	1	0	1	0	1	0	1	0	1	0	0
21	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0
22	0	0	0	1	0	1	0	0	0	1	0	1	1	1	0	0	1	0	1	0	1	1	1	0	1	0	0
23	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	1	0	0
24	0	0	0	1	0	1	0	0	0	1	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0
25	1	0	0	0	1	1	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0
26	1	0	0	1	0	1	0	0	0	1	0	0	0	0	1	0	0	0	1	0	1	0	1	0	1	0	0
27	1	1	1	0	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
28	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	1	0	1	1	1	0	1	0	1	0
29	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1	1	1	0	1	0
30	1	1	0	0	0	1	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	1	1	0	1	0	0
31	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.2 Estación Chucuyo Ex-Endesa

3.2.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur 18° 13' y Longitud Oeste 69°20' a una altura de 4200 msnm.

Posee estadística de lecturas directas a partir de 01/01/85, no posee registros termográficos.

3.2.2 Información existente

La tabla 4 muestra la información existente de la estación de lecturas directas, la que totaliza 33 meses hasta Diciembre de 1987.

3.2.3 Información traducida

En esta estación existe un período de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero 1986 a Diciembre 1989, a excepción de los meses Mayo 1986 a Junio 1986, Febrero y Octubre 1987, Febrero 1988 (43 meses). Esta información no llegó al consultor, por lo que, no se proceso este período. No posee información de termogramas. Por lo tanto la traducción por parte del consultor es 10 meses de lecturas directas.

3.2.4 Validación

Se incluye un listado de los promedios mensuales y desviaciones estandard para las lecturas directas.

ESTACION CHUCUYO EX-ENDESA

TABLA 4
LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
1/1/85	5/1/85	1/1/85	5/1/85
7/1/85	12/1/85	7/1/85	12/1/85
14/1/85	19/1/85	14/1/85	19/1/85
21/1/85	26/1/85	21/1/85	26/1/85
28/1/85	2/2/85	28/1/85	2/2/85
4/2/85	9/2/85	4/2/85	9/2/85
11/2/85	16/2/85	11/2/85	16/2/85
18/2/85	23/2/85	18/2/85	23/2/85
25/2/85	2/3/85	25/2/85	2/3/85
4/3/85	9/3/85	4/3/85	9/3/85
11/3/85	16/3/85	11/3/85	16/3/85
18/3/85	23/3/85	18/3/85	23/3/85
25/3/85	4/4/85	25/3/85	4/4/85

TABLA 4 (continuación)

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
6/4/85	6/4/85	6/4/85	6/4/85
8/4/85	13/4/85	8/4/85	13/4/85
15/4/85	20/4/85	15/4/85	20/4/85
22/4/85	27/4/85	22/4/85	27/4/85
29/4/85	4/5/85	29/4/85	4/5/85
6/5/85	11/5/85	6/5/85	11/5/85
13/5/85	18/5/85	13/5/85	18/5/85
20/5/85	25/5/85	20/5/85	25/5/85
27/5/85	1/6/85	27/5/85	1/6/85
3/6/85	8/6/85	3/6/85	8/6/85
10/6/85	15/6/85	10/6/85	15/6/85
17/6/85	22/6/85	17/6/85	22/6/85
29/6/85	1/8/85	29/6/85	1/8/85
3/8/85	5/8/85	3/8/85	5/8/85
10/8/85	17/8/85	10/8/85	17/8/85
19/8/85	24/8/85	19/8/85	24/8/85
26/8/85	31/8/85	26/8/85	31/8/85
2/9/85	7/9/85	2/9/85	7/9/85
9/9/85	14/9/85	9/9/85	14/9/85
16/9/85	17/9/85	16/9/85	17/9/85
20/9/85	21/9/85	20/9/85	21/9/85
23/9/85	28/9/85	23/9/85	28/9/85
30/9/85	6/10/85	30/9/85	6/10/85
7/10/85	12/10/85	7/10/85	12/10/85
14/10/85	19/10/85	14/10/85	19/10/85
21/10/85	26/10/86	21/10/85	26/10/86
29/10/85	31/10/86	29/10/85	31/10/86
2/1/86	4/1/86	2/1/86	4/1/86
6/1/86	11/1/86	6/1/86	11/1/86
13/1/86	18/1/86	13/1/86	18/1/86
20/1/86	25/1/86	20/1/86	25/1/86
27/1/86	1/2/86	27/1/86	1/2/86
3/2/86	8/2/86	3/2/86	8/2/86
10/2/86	15/2/86	10/2/86	15/2/86
17/2/86	22/2/86	17/2/86	22/2/86
24/2/86	1/3/86	24/2/86	1/3/86
3/3/86	8/3/86	3/3/86	8/3/86
10/3/86	15/3/86	10/3/86	15/3/86
17/3/86	22/3/86	17/3/86	22/3/86
24/3/86	29/3/86	24/3/86	29/3/86
31/3/86	5/4/86	31/3/86	5/4/86
7/4/86	10/4/86	7/4/86	10/4/86
12/4/86	12/4/86	12/4/86	12/4/86
14/4/86	19/4/86	14/4/86	19/4/86
21/4/86	26/4/86	21/4/86	26/4/86

TABLA 4 (continuación)

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
28/4/86	30/4/86	28/4/86	30/4/86
2/5/86	3/5/86	2/5/86	3/5/86
5/5/86	10/5/86	5/5/86	10/5/86
12/5/86	17/5/86	12/5/86	17/5/86
19/5/86	20/5/86	19/5/86	20/5/86
22/5/86	24/5/86	22/5/86	24/5/86
26/5/86	31/5/86	26/5/86	31/5/86
2/6/86	7/6/86	2/6/86	7/6/86
9/6/86	14/6/86	9/6/86	14/6/86
16/6/86	21/6/86	16/6/86	21/6/86
23/6/86	5/7/86	23/6/86	5/7/86
7/7/86	12/7/86	7/7/86	12/7/86
14/7/86	19/7/86	14/7/86	19/7/86
21/7/86	26/7/86	21/7/86	26/7/86
28/7/86	2/8/86	28/7/86	2/8/86
4/8/86	9/8/86	4/8/86	9/8/86
11/8/86	14/8/86	11/8/86	14/8/86
16/8/86	16/8/86	16/8/86	16/8/86
18/8/86	19/8/86	18/8/86	19/8/86
21/8/86	23/8/86	21/8/86	23/8/86
25/8/86	6/9/86	25/8/86	6/9/86
8/9/86	10/9/86	8/9/86	10/9/86
12/9/86	13/9/86	12/9/86	13/9/86
15/9/86	17/9/86	15/9/86	17/9/86
19/9/86	20/9/86	19/9/86	20/9/86
22/9/86	27/9/86	22/9/86	27/9/86
29/9/86	4/10/86	29/9/86	4/10/86
6/10/86	8/10/86	6/10/86	8/10/86
10/10/86	11/10/86	10/10/86	11/10/86
13/10/86	18/10/86	13/10/86	18/10/86
20/10/86	25/10/86	20/10/86	25/10/86
27/10/86	1/11/86	27/10/86	1/11/86
3/11/86	8/11/86	3/11/86	8/11/86
10/11/86	15/11/86	10/11/86	15/11/86
17/11/86	22/11/86	17/11/86	22/11/86
24/11/86	29/11/86	24/11/86	29/11/86
1/12/86	6/12/86	1/12/86	6/12/86
19/12/86	13/12/86	19/12/86	13/12/86
15/12/86	18/12/86	15/12/86	18/12/86
20/12/86	20/12/86	20/12/86	20/12/86
22/12/86	24/12/86	22/12/86	24/12/86
26/12/86	27/12/86	26/12/86	27/12/86
29/12/86	31/12/86	29/12/86	31/12/86
2/1/87	3/1/87	2/1/87	3/1/87
5/1/87	10/1/87	5/1/87	10/1/87

TABLA 4 (continuación)
LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
12/1/87	17/1/87	12/1/87	17/1/87
19/1/87	24/1/87	19/1/87	24/1/87
26/1/87	31/1/87	26/1/87	31/1/87
2/3/87	7/3/87	2/3/87	7/3/87
9/3/87	14/3/87	9/3/87	14/3/87
16/3/87	21/3/87	16/3/87	21/3/87
23/3/87	28/3/87	23/3/87	28/3/87
30/3/87	4/4/87	30/3/87	4/4/87
6/4/87	11/4/87	6/4/87	11/4/87
13/4/87	17/4/87	13/4/87	17/4/87
20/4/87	25/4/87	20/4/87	25/4/87
27/4/87	2/5/87	27/4/87	2/5/87
4/5/87	9/5/87	4/5/87	9/5/87
11/5/87	16/5/87	11/5/87	16/5/87
18/5/87	20/5/87	18/5/87	20/5/87
22/5/87	23/5/87	22/5/87	23/5/87
25/5/87	30/5/87	25/5/87	30/5/87
8/6/87	13/6/87	8/6/87	13/6/87
15/6/87	20/6/87	15/6/87	20/6/87
22/6/87	27/6/87	22/6/87	27/6/87
29/6/87	1/7/87	29/6/87	1/7/87
3/7/87	3/7/87	3/7/87	3/7/87
7/7/87	11/7/87	7/7/87	11/7/87
13/7/87	18/7/87	13/7/87	18/7/87
20/7/87	25/7/87	20/7/87	25/7/87
27/7/87	1/8/87	27/7/87	1/8/87
3/8/87	8/8/87	3/8/87	8/8/87
10/8/87	15/8/87	10/8/87	15/8/87
17/8/87	22/8/87	17/8/87	22/8/87
24/8/87	29/8/87	24/8/87	29/8/87
31/8/87	5/9/87	31/8/87	5/9/87
7/9/87	10/9/87	7/9/87	10/9/87
12/9/87	12/9/87	12/9/87	12/9/87
14/9/87	17/9/87	14/9/87	17/9/87
21/9/87	26/9/87	21/9/87	26/9/87
28/9/87	30/9/87	28/9/87	30/9/87
2/11/87	7/11/87	2/11/87	7/11/87
9/11/87	10/11/87	9/11/87	10/11/87
12/11/87	14/11/87	12/11/87	14/11/87
16/11/87	21/11/87	16/11/87	21/11/87
23/11/87	28/11/87	23/11/87	28/11/87
30/11/87	5/12/87	30/11/87	5/12/87
7/12/87	11/12/87	7/12/87	12/12/87
		14/12/87	19/12/87
		21/12/87	24/12/87
		26/12/87	26/12/87
		28/12/87	31/12/87

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : CHUCUYO EX-ENDESA CODIGO: 01020055 5

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
85	1	13.67	27	2.304	-4.52	27	3.694
85	2	12.33	24	1.903	0.75	24	1.847
85	3	13.85	26	2.148	-3.04	26	2.553
85	4	12.84	25	2.192	-4.96	25	3.541
85	5	12.11	27	1.311	-8.52	27	2.408
86	5	10.08	25	2.197	-9.68	25	7.798
85	6	10.20	25	1.936	-9.08	25	3.013
86	6	10.64	25	1.934	-12.92	25	5.830
85	8	11.26	27	3.182	-10.63	27	3.236
85	9	11.78	23	2.235	-10.57	23	3.396
85	10	14.38	26	1.329	-11.46	26	1.838

3.3 Estación Chilcaya

3.3.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur 18° 48' y Longitud Oeste 69°09' a una altura de 4140 msnm.

Posee estadística de lecturas directas a partir de 01/11/71 y registro termográficos desde 26/10/71.

3.3.2 Información existente

La tabla 5 muestra la información existente de la estación de lecturas directas, la que totaliza 97 meses. La tabla 6 muestra la información existente de termogramas la que totaliza 150 meses.

3.3.3 Información traducida

En esta estación existe un período de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero 1986 a Diciembre 1987, a excepción de los meses Abril a Diciembre de 1987 (15 meses) y registros termográficos que van desde Enero 1971 a Diciembre de 1984, a excepción de los meses Enero a Septiembre 1971, Enero a Septiembre, Diciembre de 1973, Enero a Octubre 1974, Junio a Diciembre de 1975, Enero a Agosto de 1976, Noviembre a Diciembre de 1977, Enero a Marzo de 1978, Agosto, Noviembre 1980, Diciembre 1983, Marzo a Abril, Julio a Agosto, Diciembre de 1984 (119 meses). Por lo tanto la traducción por parte del consultor abarca 82 meses de lecturas directas y 31 meses de registros termográficos.

3.3.4 Validación

Se ha efectuado una comparación entre las lecturas del higrómetro y las lecturas directas en el período que les es común, usando el período total de información existente.

Los factores de corrección aplicados a los termogramas se muestran en la tabla 7.

Después de aplicadas los factores de corrección mediante un proceso computacional se ha descartado todos los valores de Lecturas directas máximas y mínimas fuera del rango ± 1.9 . Se incluye un listado con el detalle de los valores eliminados.

Además se ha comparado las lecturas directas con los valores de termogramas traducidos con anterioridad por la DGA, en el período anterior a Diciembre 1984, con lo cual se han eliminado los valores de lecturas directas que al compararlos

con los valores de los termogramas previamente ingresados por la DGA, dan una diferencia mayor a ± 1.9 .

Se incluye un listado de los promedios mensuales y desviaciones estandar para las lecturas directas y termográficas en todo el período.

ESTACION CHILCAYA

TABLA 5

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
1/11/71	30/11/71	1/11/71	30/11/71
1/2/77	27/2/77	1/2/77	27/2/77
1/3/77	27/3/77	1/3/77	28/3/77
2/10/77	30/11/77	2/10/77	30/11/77
1/1/79	16/7/80	1/1/79	20/10/79
23/7/80	31/7/80	1/11/79	31/7/80
1/10/80	31/10/80	1/10/80	31/10/80
1/12/80	31/12/80	1/12/80	31/12/80
1/2/81	28/2/81	1/2/81	12/11/81
10/3/81	28/2/82	16/12/81	28/2/82
1/4/82	2/2/83	1/4/82	30/5/83
5/3/83	30/5/83	1/6/83	30/9/84
1/6/83	23/9/84	12/10/84	21/10/84
12/10/84	21/10/84	24/10/84	29/11/84
24/10/84	29/11/84	1/12/84	30/9/85
1/12/84	30/9/85	4/12/85	
4/12/85			

ESTACION CHILCAYA

TABLA 6

TERMOGRAMAS

DESDE	HASTA
26/10/71	30/4/72
1/5/72	13/9/72
2/10/72	29/12/72
1/1/73	4/1/73
5/1/73	12/2/73
19/2/73	22/2/73
23/10/73	19/11/73
6/11/74	9/6/75
12/6/75	28/6/75
30/6/75	1/7/75
2/7/75	7/7/75
16/2/76	28/3/76
1/4/76	9/4/76
12/4/76	26/4/76
1/5/76	9/5/76
10/5/76	20/6/76
21/6/76	26/7/76
20/9/76	4/10/76
1/11/76	12/4/77
18/4/77	29/8/77
26/9/77	31/10/77
3/4/78	15/5/78
22/5/78	29/8/78
31/8/78	15/1/79
16/1/79	19/5/80
21/5/80	20/7/80
29/9/80	27/10/80
1/12/80	29/12/80
26/1/81	9/2/81
11/2/81	5/3/81
6/3/81	22/6/81
23/6/84	5/10/81
10/10/81	10/1/82
13/1/82	23/1/82
25/1/82	3/2/82
4/2/82	1/3/82
29/3/82	7/6/82
10/6/82	28/11/83
2/1/84	24/9/84
28/9/84	1/10/84
10/10/84	29/1/85
4/2/85	29/4/85
6/5/85	26/8/85
3/9/85	26/5/86
15/9/86	22/9/86
23/9/86	26/1/87
2/2/87	30/3/87

TABLA 7

FACTORES DE CORRECCION

INICIO	TERMINO	FC
07 05 79	14 05 79	-1.0
28 05 79	04 06 79	-2.0
01 05 82	03 05 82	+3.5
03 05 82	10 05 82	+4.0
17 05 82	24 05 82	+4.0
01 10 83	03 10 83	+1.0
01 03 84	05 03 84	+3.0
05 03 84	12 03 84	+2.0
12 03 84	19 03 84	+4.0
19 03 84	02 04 84	+3.0
02 04 84	16 04 84	+2.0
16 04 84	23 04 84	+5.0
23 04 84	30 04 84	+7.0
01 06 84	04 06 84	+14.0
04 06 84	11 06 84	+23.6
11 06 84	18 06 84	+8.0
18 06 84	25 06 84	+6.5
25 06 84	02 07 84	+10.0
02 07 84	09 07 84	+9.0
09 07 84	23 07 84	+8.0
23 07 84	30 07 84	+7.0
30 07 84	06 08 84	+10.0
06 08 84	13 08 84	+9.4
13 08 84	20 08 84	+9.0
20 08 84	27 08 84	+7.6
27 08 84	31 08 84	+8.0
17 12 84	24 12 84	-2.0
24 12 84	31 12 84	-3.0
24 02 85	03 03 85	-2.0
10 03 85	17 03 85	-2.5
08 04 85	15 04 85	-1.0

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CHILCAYA

CODIGO: 01030050

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ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
79	1	13.05	20	2.212	2.94	17	2.561
80	1	14.32	25	0.900	-4.31	16	2.575
82	1	11.71	14	2.998	-2.78	18	3.282
84	1	11.54	5	0.969	-3.16	26	1.296
85	1	12.42	23	0.829	-1.83	12	2.406
86	1	12.52	30	1.608	0.11	31	1.726
87	1	13.30	30	2.164	3.40	31	2.834
77	2	13.22	25	2.814	3.25	26	2.762
79	2	14.31	16	1.537	-3.53	15	2.642
80	2	15.33	15	0.617	-0.33	9	4.924
81	2	11.88	16	1.455	0.79	14	3.068
82	2	14.07	14	1.207	-4.60	15	2.798
85	2	11.45	22	1.184	2.74	19	0.991
86	2	11.50	22	1.946	-1.22	24	2.457
87	2	16.99	13	1.500	2.99	17	3.050
77	3	11.32	24	1.972	2.31	26	2.690
79	3	13.26	23	1.287	2.43	21	2.925
80	3	14.33	3	0.577	-2.50	2	2.121
81	3	12.92	13	1.382	-0.89	19	1.595
83	3	0.00	0	0.000	-12.00	3	1.000
84	3	12.33	29	0.294	-0.38	4	2.926
85	3	12.08	25	1.038	1.41	8	1.470
86	3	10.77	30	2.649	-1.18	26	1.834
87	3	14.64	29	1.644	-1.75	29	2.896
79	4	13.47	19	1.712	-8.86	7	4.981
80	4	12.50	10	2.506	-6.33	9	2.121
81	4	12.29	17	1.532	-4.83	18	3.930
82	4	13.50	8	2.330	-6.46	13	2.634
83	4	0.00	0	0.000	-12.10	10	0.994
84	4	13.94	25	0.769	-5.38	12	1.264
85	4	11.93	27	1.838	-4.79	19	2.394
86	4	11.45	28	1.225	-4.30	28	2.137
79	5	11.83	30	1.440	-13.56	18	2.770
80	5	11.00	13	1.683	-8.80	10	2.974
81	5	11.48	21	1.601	-9.25	20	3.432
82	5	12.28	25	2.354	-10.64	14	3.754
83	5	0.00	0	0.000	-14.36	11	2.618
84	5	0.00	0	0.000	-12.73	13	1.481
85	5	11.57	27	1.597	-7.18	28	1.945
86	5	9.32	29	1.815	-8.60	28	3.741
79	6	11.05	21	1.203	-11.56	9	1.590
80	6	11.35	23	1.722	-12.36	11	3.443
81	6	8.91	22	1.377	-10.89	9	3.887

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : CHILCAYA CODIGO: 01030050 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
82	6	10.86	7	1.345	-15.10	10	1.197
83	6	0.00	0	0.000	-12.11	28	5.692
84	6	9.80	23	1.019	0.00	0	0.000
85	6	8.97	22	1.002	-8.26	19	1.327
86	6	8.77	30	2.110	-11.96	30	5.116
79	7	10.24	21	1.338	-13.10	10	2.378
80	7	8.74	19	2.023	-8.29	17	2.257
81	7	11.00	15	1.195	-14.00	9	3.808
82	7	10.00	1	0.000	-13.11	9	2.759
83	7	0.00	0	0.000	-10.76	16	3.558
84	7	9.41	27	0.679	-13.52	5	1.681
85	7	9.15	27	1.634	-12.79	28	3.023
86	7	8.31	31	3.614	-19.12	31	3.471
79	8	11.35	20	1.814	-12.77	13	2.315
81	8	10.92	12	3.029	-9.07	14	4.160
82	8	0.00	0	0.000	-13.00	6	1.095
83	8	12.58	8	0.403	-13.40	4	0.698
84	8	10.32	24	0.220	-12.70	5	2.308
85	8	3.30	27	2.447	-18.59	29	4.412
86	8	6.45	31	2.849	-16.61	31	2.819
79	9	12.41	22	1.297	-11.22	9	1.202
81	9	11.82	17	1.551	-10.86	7	4.880
82	9	13.50	2	0.707	-13.00	4	0.816
83	9	12.00	6	0.400	-2.60	5	4.696
84	9	11.06	23	2.217	-12.87	26	4.086
85	9	2.56	25	3.015	-15.60	20	3.545
86	9	8.66	25	1.864	-5.88	29	2.915
77	10	13.94	18	1.626	-8.10	16	3.051
79	10	14.00	19	1.599	-7.57	7	2.573
80	10	14.76	17	1.033	-5.89	18	3.306
81	10	12.86	21	1.590	-8.06	16	1.769
82	10	14.00	3	2.000	-11.00	1	0.000
83	10	13.03	25	0.828	-8.60	29	1.496
84	10	14.15	15	2.057	-3.72	9	2.108
85	10	0.00	0	0.000	0.00	0	0.000
86	10	14.76	28	3.270	-4.89	30	3.745
71	11	11.70	5	2.573	-9.96	18	4.284
77	11	15.15	30	1.928	-3.37	30	1.638
79	11	15.53	19	1.124	-5.64	11	1.912
81	11	15.57	7	1.272	-8.00	10	1.826
82	11	14.00	9	1.414	-5.33	9	0.866
83	11	13.48	12	0.920	-11.44	17	1.629
84	11	13.49	14	1.124	-3.48	11	0.669

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : CHILCAYA CODIGO: 01030050 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
85	11	0.00	0	0.000	0.00	0	0.000
86	11	16.24	20	3.893	-0.53	12	3.731
87	11	0.00	0	0.000	0.00	0	0.000
71	12	0.00	0	0.000	0.00	0	0.000
72	12	0.00	0	0.000	0.00	0	0.000
73	12	0.00	0	0.000	0.00	0	0.000
74	12	0.00	0	0.000	0.00	0	0.000
75	12	0.00	0	0.000	0.00	0	0.000
76	12	0.00	0	0.000	0.00	0	0.000
77	12	0.00	0	0.000	0.00	0	0.000
78	12	0.00	0	0.000	0.00	0	0.000
79	12	14.23	22	2.349	-0.78	18	3.750
80	12	14.66	29	2.349	-5.86	22	2.642
81	12	12.08	12	2.193	-1.47	17	4.274
82	12	17.00	1	0.000	-5.58	12	3.528
83	12	13.10	31	1.203	0.00	0	0.000
84	12	12.83	27	0.667	-3.55	11	0.701
85	12	12.54	24	1.978	-1.29	24	3.107
86	12	15.59	27	3.083	2.92	31	2.941
87	12	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CHILCAYA

CODIGO: 01030050 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
71	1	0.00	0	0.000	0.00	0	0.000
72	1	10.24	30	1.560	0.10	31	1.712
73	1	12.80	31	2.747	2.86	30	2.234
74	1	0.00	0	0.000	0.00	0	0.000
75	1	9.49	30	2.584	-2.73	31	3.921
76	1	0.00	0	0.000	0.00	0	0.000
77	1	12.84	30	2.991	0.32	31	2.016
78	1	0.00	0	0.000	0.00	0	0.000
79	1	12.63	30	1.861	1.97	29	2.379
80	1	14.45	31	1.758	-2.64	29	3.050
81	1	12.58	6	1.463	3.00	5	0.612
82	1	12.19	26	2.577	-0.26	24	3.026
83	1	13.24	31	1.477	-3.68	31	2.697
84	1	7.74	29	1.651	-2.15	29	1.096
85	1	13.09	28	1.828	-1.49	29	3.209
86	1	12.56	30	1.565	-0.26	30	1.996
87	1	13.58	25	1.733	2.73	26	2.850
71	2	0.00	0	0.000	0.00	0	0.000
72	2	9.23	28	2.998	-1.61	28	2.314
73	2	11.17	24	1.503	-2.63	23	4.387
74	2	0.00	0	0.000	0.00	0	0.000
75	2	9.64	27	1.737	0.60	28	2.704
76	2	0.00	0	0.000	0.00	0	0.000
77	2	13.25	28	2.939	3.09	28	3.135
78	2	0.00	0	0.000	0.00	0	0.000
79	2	13.55	28	2.274	-3.97	28	3.048
80	2	16.14	28	1.710	-0.51	28	3.724
81	2	11.74	27	2.229	1.40	26	1.990
82	2	13.21	27	1.675	-2.89	26	3.375
83	2	11.02	28	1.979	-5.61	28	3.473
84	2	7.55	28	1.658	-1.16	28	1.763
85	2	10.85	25	1.321	1.18	24	1.282
86	2	11.71	28	1.780	-1.48	28	2.337
87	2	17.06	27	2.073	1.72	26	3.015
71	3	0.00	0	0.000	0.00	0	0.000
72	3	10.98	31	1.638	-1.88	31	2.279
73	3	0.00	0	0.000	0.00	0	0.000
74	3	0.00	0	0.000	0.00	0	0.000
75	3	10.67	29	2.088	-0.94	30	3.048
76	3	0.00	0	0.000	0.00	0	0.000
77	3	11.25	30	1.945	1.74	31	2.962
78	3	0.00	0	0.000	0.00	0	0.000
79	3	13.70	31	1.977	1.67	29	2.855
80	3	16.38	31	2.095	2.32	31	2.970
81	3	12.46	29	1.556	-2.15	28	3.069
82	3	16.50	3	0.866	-1.50	2	0.000

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CHILCAYA

CODIGO: 01030050 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
83	3	10.20	31	2.428	-7.45	31	2.639
84	3	12.09	31	1.122	0.70	31	1.886
85	3	12.13	31	1.481	-1.60	31	2.238
86	3	11.20	31	2.583	-1.65	31	1.843
87	3	15.17	27	1.811	-2.12	27	3.347
71	4	0.00	0	0.000	0.00	0	0.000
72	4	10.03	29	1.395	-6.97	29	3.643
73	4	0.00	0	0.000	0.00	0	0.000
74	4	0.00	0	0.000	0.00	0	0.000
75	4	11.42	30	2.742	-5.92	29	2.497
76	4	0.00	0	0.000	0.00	0	0.000
77	4	9.19	24	1.680	-6.11	23	3.089
78	4	10.74	27	2.246	-7.12	25	4.220
79	4	13.97	30	3.496	-3.18	28	3.255
80	4	14.96	30	2.720	-3.00	30	2.859
81	4	10.26	30	2.372	-5.13	30	3.945
82	4	12.55	30	2.335	-5.65	30	4.243
83	4	8.77	30	1.854	-9.52	30	3.443
84	4	13.80	30	1.988	-3.39	30	2.049
85	4	12.74	28	1.867	-3.71	29	2.846
86	4	11.66	30	1.449	-4.44	30	2.241
87	4	0.00	0	0.000	0.00	0	0.000
71	5	0.00	0	0.000	0.00	0	0.000
72	5	8.41	30	1.912	-11.58	30	2.882
73	5	0.00	0	0.000	0.00	0	0.000
74	5	0.00	0	0.000	0.00	0	0.000
75	5	7.86	11	1.343	-7.93	11	3.328
76	5	0.00	0	0.000	0.00	0	0.000
77	5	8.39	31	1.569	-8.80	31	2.146
78	5	8.26	24	2.620	-8.87	22	3.561
79	5	12.47	31	2.230	-12.66	31	3.127
80	5	12.83	31	2.242	-7.47	31	3.964
81	5	10.97	31	1.756	-8.99	31	3.187
82	5	12.20	31	2.187	-7.96	31	4.491
83	5	5.50	31	1.996	-10.85	31	3.555
84	5	2.95	31	3.132	-14.12	31	2.950
85	5	10.87	26	1.666	-7.81	25	2.219
86	5	9.64	25	2.180	-8.42	26	3.835
87	5	0.00	0	0.000	0.00	0	0.000
71	6	0.00	0	0.000	0.00	0	0.000
72	6	6.70	30	2.599	-14.00	30	4.094
73	6	0.00	0	0.000	0.00	0	0.000
74	6	0.00	0	0.000	0.00	0	0.000
75	6	0.00	0	0.000	0.00	0	0.000
76	6	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CHILCAYA

CODIGO: 01030050 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
77	6	8.15	30	2.357	-8.92	30	2.483
78	6	7.70	30	1.685	-11.23	30	3.533
79	6	10.46	30	2.071	-8.55	28	3.478
80	6	10.77	29	1.801	-9.49	28	3.967
81	6	9.07	30	1.813	-10.78	29	3.685
82	6	7.81	28	2.847	-9.81	27	4.261
83	6	2.43	30	1.507	-11.85	30	5.376
84	6	9.83	30	2.291	-6.02	30	4.212
85	6	8.79	30	1.694	-7.93	30	2.318
86	6	0.00	0	0.000	0.00	0	0.000
87	6	0.00	0	0.000	0.00	0	0.000
71	7	0.00	0	0.000	0.00	0	0.000
72	7	6.49	31	1.851	-10.71	31	5.102
73	7	0.00	0	0.000	0.00	0	0.000
74	7	0.00	0	0.000	0.00	0	0.000
75	7	0.00	0	0.000	0.00	0	0.000
76	7	0.00	0	0.000	0.00	0	0.000
77	7	8.87	31	1.554	-8.66	31	3.174
78	7	7.64	29	2.506	-14.03	30	4.966
79	7	9.20	31	2.024	-10.32	28	3.884
80	7	8.54	27	2.882	-7.52	27	3.766
81	7	9.66	31	3.448	-12.44	31	4.802
82	7	6.32	31	2.845	-13.33	31	4.527
83	7	5.24	31	2.423	-10.55	31	4.263
84	7	9.63	31	1.236	-9.37	31	3.743
85	7	8.07	31	4.786	-12.65	31	3.249
86	7	0.00	0	0.000	0.00	0	0.000
87	7	0.00	0	0.000	0.00	0	0.000
71	8	0.00	0	0.000	0.00	0	0.000
72	8	6.42	29	2.938	-11.97	31	4.528
73	8	0.00	0	0.000	0.00	0	0.000
74	8	0.00	0	0.000	0.00	0	0.000
75	8	0.00	0	0.000	0.00	0	0.000
76	8	0.00	0	0.000	0.00	0	0.000
77	8	10.45	28	2.390	-8.09	28	3.124
78	8	8.80	30	2.541	-8.61	28	2.803
79	8	11.81	31	1.216	-11.80	30	2.963
80	8	0.00	0	0.000	0.00	0	0.000
81	8	8.61	31	3.823	-9.77	31	4.096
82	8	8.20	31	2.872	-11.97	31	2.952
83	8	8.93	31	2.020	-9.10	31	3.511
84	8	9.49	31	2.044	-7.55	31	3.863
85	8	1.82	25	3.105	-19.25	26	4.376
86	8	0.00	0	0.000	0.00	0	0.000
87	8	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CHILCAYA

CODIGO: 01030050 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
71	9	0.00	0	0.000	0.00	0	0.000
72	9	5.07	11	1.392	-9.79	12	4.277
73	9	0.00	0	0.000	0.00	0	0.000
74	9	0.00	0	0.000	0.00	0	0.000
75	9	0.00	0	0.000	0.00	0	0.000
76	9	7.21	11	3.889	-7.46	10	2.482
77	9	11.80	5	2.683	-8.75	4	0.500
78	9	8.55	30	2.065	-12.58	30	4.069
79	9	12.47	30	1.893	-8.55	30	4.782
80	9	10.00	2	1.414	-14.50	1	0.000
81	9	10.22	29	2.282	-9.70	30	4.630
82	9	9.67	30	1.849	-7.66	30	3.617
83	9	8.43	30	2.552	-5.20	30	2.394
84	9	10.96	19	2.668	-9.65	18	3.496
85	9	3.27	27	2.695	-16.39	27	3.558
86	9	10.67	15	1.383	-7.40	14	3.081
87	9	0.00	0	0.000	0.00	0	0.000
71	10	10.88	6	1.491	-8.42	6	5.417
72	10	10.66	30	2.379	-5.02	29	5.673
73	10	10.94	8	0.623	-9.56	9	2.866
74	10	0.00	0	0.000	0.00	0	0.000
75	10	0.00	0	0.000	0.00	0	0.000
76	10	10.67	3	1.041	-4.67	3	1.893
77	10	12.86	30	2.111	-7.29	30	3.032
78	10	12.36	31	2.891	-6.63	31	3.735
79	10	13.98	31	2.184	-5.27	31	3.470
80	10	12.73	28	2.331	-7.34	27	4.149
81	10	12.29	26	1.582	-7.90	24	2.661
82	10	11.90	31	1.824	-4.82	31	3.842
83	10	12.85	31	2.010	-8.71	31	2.154
84	10	13.45	21	2.067	-2.40	21	2.273
85	10	4.98	31	3.113	-17.90	31	3.429
86	10	15.93	31	3.324	-4.73	31	3.913
87	10	0.00	0	0.000	0.00	0	0.000
71	11	8.97	30	2.248	-9.84	30	4.118
72	11	11.03	29	2.897	-1.80	30	3.042
73	11	11.02	21	1.561	-8.38	22	4.060
74	11	11.38	25	2.579	-10.27	25	4.069
75	11	0.00	0	0.000	0.00	0	0.000
76	11	11.62	29	2.262	-7.47	29	3.995
77	11	0.00	0	0.000	0.00	0	0.000
78	11	12.59	30	1.744	-4.41	30	3.281
79	11	15.77	30	1.419	-4.98	30	3.471
80	11	0.00	0	0.000	0.00	0	0.000
81	11	14.20	30	2.032	-6.02	30	3.845
82	11	12.68	30	1.504	-3.66	30	1.891

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CHILCAYA

CODIGO: 01030050 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
83	11	10.91	27	1.606	-9.64	27	2.597
84	11	12.19	30	1.866	-3.06	30	3.476
85	11	4.84	30	2.481	-10.57	30	3.361
86	11	16.23	30	4.250	-1.64	30	4.750
87	11	0.00	0	0.000	0.00	0	0.000
71	12	12.30	29	1.208	-2.34	31	3.289
72	12	13.53	3	1.234	0.10	3	1.153
73	12	0.00	0	0.000	0.00	0	0.000
74	12	9.86	29	2.416	-8.07	31	5.361
75	12	0.00	0	0.000	0.00	0	0.000
76	12	13.43	30	2.168	-1.44	29	2.983
77	12	0.00	0	0.000	0.00	0	0.000
78	12	13.90	31	2.937	-2.24	31	3.788
79	12	14.27	31	2.287	-0.74	31	3.113
80	12	15.04	28	2.174	-6.32	28	2.940
81	12	14.32	31	3.093	-1.73	31	3.692
82	12	12.05	31	2.252	-5.27	31	4.032
83	12	0.00	0	0.000	0.00	0	0.000
84	12	13.13	30	1.525	-3.81	31	3.150
85	12	12.12	31	2.707	-2.55	31	4.040
86	12	15.70	31	2.973	2.62	31	2.871
87	12	0.00	0	0.000	0.00	0	0.000

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1971)
 ESTACION: CHILCAYA CODIGO : 01030050 9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1972)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	01	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	00	00	00	00	00	11	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	00	00	00	00	00	00	00	11	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	00	00	00	00	00	00	00	10	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	00	00	00	00	10	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	00	00	00	00	00	00	00	10	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	00	00	00	00	00	00	00	10	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	00	00	00	00	00	00	00	10	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	00	00	00	00	00	10	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	00	00	00	00	00	00	00	00	00	11	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	00	00	00	00	00	00	00	10	00	12	00	00	00	00	00	00	00	00	00	00		
13	00	00	00	00	00	00	00	00	00	00	10	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	00	00	00	00	00	00	00	00	11	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	00	00	00	00	00	00	00	11	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	00	00	00	00	10	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	00	00	00	00	00	00	00	10	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	00	00	00	00	00	00	00	00	00	10	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	00	00	00	00	00	00	11	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	00	00	00	00	00	00	10	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	00	00	00	00	00	11	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	00	00	00	00	00	00	00	11	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	00	00	00	00	00	00	00	00	00	11	00	23	00	00	00	00	00	00	00	00	00	00		
24	00	00	00	00	00	00	00	00	00	00	11	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	00	00	00	00	00	00	00	00	11	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	00	00	00	00	00	00	00	00	10	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	00	00	00	00	00	00	00	00	00	10	00	28	00	00	00	00	00	00	00	00	00	00		
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1973)
 ESTACION: CHILCAYA CODIGO : 01030050 9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1974)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00		
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00		
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00		
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1975)
 ESTACION: CHILCAYA CODIGO : 01030050 9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1976)

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1975)													LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1976)												
DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00	00	
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00	00	
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00	00	
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00	00	
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00	00	
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00	00	
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00	00	
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00	00	
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00	00	
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00	00	
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00	00	
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00	00	
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14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00	00	
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16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00	00	
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00	00	
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00	00	
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00	00	
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00	00	
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00	00	
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23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00	00	
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00	00	
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00	00	
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00	00	
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00	00	
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00	00	
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30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00	00	
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00	00	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1977)
 ESTACION: CHILCAYA CODIGO : 01030050 9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1978)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	01	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	00	00	00	00	11	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	10	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	00	00	00	10	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	10	10	00	00	00	00	00	00	11	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	00	00	00	00	00	00	11	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	00	00	00	00	00	00	01	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	00	00	00	00	11	00	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	00	00	00	00	00	00	00	00	10	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	00	00	00	00	00	00	11	00	00	12	00	00	00	00	00	00	00	00	00	00		
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14	00	00	00	00	00	00	00	00	00	11	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	00	00	00	00	00	00	10	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	00	00	00	10	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	00	00	00	00	00	00	00	00	01	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	00	00	00	00	00	01	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	00	00	00	00	00	01	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	00	00	00	00	10	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	01	00	00	00	00	00	00	01	00	00	22	00	00	00	00	00	00	00	00	00	00		
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25	00	00	00	00	00	00	00	00	00	01	00	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00		
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1979)
 ESTACION: CHILCAYA CODIGO : 01030050 9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1980)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
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2	01	11	10	00	00	01	01	01	01	10	01	10	2	00	10	11	11	01	00	01	00	00	11	00	11
3	00	01	00	01	00	00	00	00	00	01	00	01	3	01	01	11	11	01	00	01	00	00	10	00	00
4	11	11	00	11	00	11	00	11	01	11	01	00	4	00	11	11	10	11	00	01	00	00	01	00	00
5	10	00	01	01	00	11	00	00	00	01	01	00	5	00	01	11	10	10	01	01	00	00	10	00	01
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9	11	00	00	11	00	00	01	00	00	01	11	11	9	01	01	11	01	11	00	00	00	00	11	00	00
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12	11	01	00	11	01	01	11	01	01	01	01	00	12	00	11	11	01	11	10	01	00	00	01	00	01
13	01	10	00	11	01	00	11	01	01	11	10	11	13	01	10	11	01	11	01	01	00	00	10	00	01
14	00	10	00	00	00	01	10	00	01	01	10	00	14	10	11	11	11	11	01	01	00	00	11	00	00
15	00	10	00	10	01	01	00	11	11	11	01	01	15	11	00	11	10	10	01	11	00	00	00	00	00
16	00	10	00	01	01	01	01	01	01	11	01	10	16	01	01	11	10	11	10	00	00	00	00	00	00
17	11	01	01	00	00	11	11	01	01	01	01	01	17	00	00	11	11	11	11	00	00	00	00	00	01
18	00	00	01	00	00	11	11	10	11	00	01	11	18	01	11	11	11	10	11	00	00	00	00	00	01
19	10	11	10	01	00	01	01	10	11	00	11	01	19	11	00	01	11	01	11	00	00	00	00	00	01
20	01	01	00	01	00	00	01	11	00	00	11	10	20	10	01	11	11	01	00	00	00	00	01	00	00
21	00	01	01	11	01	11	11	00	01	00	10	10	21	01	01	11	01	01	00	01	00	00	00	00	00
22	00	01	11	11	01	01	01	11	01	10	00	01	22	11	11	11	01	11	01	00	00	00	10	00	00
23	01	00	01	01	01	01	10	00	00	00	00	00	23	01	01	11	11	10	01	11	00	00	00	00	00
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26	01	00	01	01	00	01	00	01	01	10	00	00	26	00	10	11	11	00	11	11	00	00	00	00	00
27	01	01	11	11	00	00	01	10	11	00	00	01	27	00	01	00	11	01	01	11	00	00	00	00	00
28	01	11	10	10	10	00	01	11	01	10	01	00	28	01	01	11	11	01	01	00	00	00	00	00	00
29	00	00	10	00	00	01	01	01	00	10	01	10	29	01	00	11	11	11	01	00	00	00	10	00	00
30	11	00	01	01	01	11	11	01	11	00	01	00	30	00	00	11	00	10	11	00	00	00	11	00	00
31	10	00	00	00	01	00	00	01	00	10	00	00	31	00	00	01	00	00	00	00	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1981)

ESTACION: CHILCAYA

CODIGO : 01030050

9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1982)

DIA ENE FEB MAR ABR MAY JUN JUL AGO SEP OCT NOV DIC

1	00	11	00	01	01	11	11	01	00	01	11	00
2	00	11	00	01	01	11	00	00	11	01	10	00
3	00	11	00	00	00	01	11	11	11	01	10	01
4	00	11	00	01	00	01	01	01	11	00	11	00
5	00	00	00	00	00	01	00	11	11	00	01	01
6	00	00	00	10	00	01	11	11	01	00	01	00
7	00	00	00	10	01	00	11	11	11	00	01	01
8	00	00	00	10	00	01	11	11	01	00	00	00
9	00	11	00	10	00	11	01	00	01	00	00	01
10	00	00	10	00	00	01	01	10	01	00	00	01
11	00	10	00	11	10	01	00	10	01	01	11	00
12	00	00	01	01	00	00	00	10	01	00	01	00
13	00	00	01	10	01	01	01	01	01	01	01	01
14	00	01	00	10	00	01	01	01	10	01	01	01
15	00	11	01	11	00	01	01	11	10	10	01	00
16	00	01	00	11	00	01	00	01	11	01	00	11
17	00	10	00	10	01	01	11	11	01	00	00	01
18	00	10	11	11	11	11	11	11	01	00	01	11
19	00	00	10	11	11	11	11	11	10	11	01	01
20	00	01	11	01	11	01	11	10	11	11	00	01
21	00	01	00	00	10	00	11	10	01	10	01	01
22	00	01	10	00	11	00	10	01	11	10	00	00
23	00	00	00	01	10	00	11	10	00	11	01	10
24	00	11	01	10	00	01	11	01	01	11	01	10
25	00	01	11	00	10	01	11	10	01	11	00	01
26	00	10	01	00	00	01	10	00	11	01	01	00
27	00	10	01	01	01	00	01	10	01	11	01	00
28	00	01	01	00	00	10	00	10	01	11	01	00
29	00	00	11	00	00	10	11	01	00	00	01	00
30	00	00	11	00	10	10	01	10	10	00	01	00
31	00	00	10	00	11	00	00	00	00	00	00	00

DIA ENE FEB MAR ABR MAY JUN JUL AGO SEP OCT NOV DIC

1	01	01	00	01	01	11	11	11	11	11	01	11
2	10	10	00	00	01	01	10	11	11	11	01	11
3	00	00	00	00	00	01	11	11	11	11	01	10
4	10	10	00	11	00	11	01	11	11	10	11	11
5	10	00	00	11	10	00	11	11	11	11	00	10
6	10	11	00	11	01	01	11	11	11	11	01	11
7	11	11	00	10	01	11	10	11	11	11	00	11
8	10	01	00	11	01	00	10	11	11	11	00	11
9	01	01	00	10	01	00	11	11	11	11	10	11
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11	00	00	00	10	01	11	10	11	11	11	11	11
12	00	01	00	11	00	00	11	11	10	11	11	11
13	10	00	00	00	00	10	11	11	10	11	01	11
14	01	01	00	11	10	10	11	11	01	11	01	10
15	00	00	00	11	00	10	10	11	00	11	11	10
16	11	00	00	11	01	10	10	11	11	11	11	10
17	00	11	00	11	00	11	10	11	11	11	11	10
18	10	11	00	10	01	11	11	11	10	01	11	11
19	11	11	00	10	00	11	11	11	11	11	11	11
20	01	11	00	10	01	11	11	11	11	11	10	11
21	11	11	00	10	01	11	11	11	11	11	10	11
22	11	01	00	11	01	11	11	10	11	11	11	10
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25	10	10	00	01	10	11	10	11	11	11	10	11
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28	01	10	00	11	01	11	11	11	11	11	10	10
29	11	00	00	11	01	10	11	10	11	11	11	10
30	10	00	00	01	10	11	11	10	11	11	11	11
31	10	00	00	00	00	00	11	10	00	01	00	01

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1983)

ESTACION: CHILCAYA

CODIGO : 01030050

9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1984)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	11	11	01	11	11	10	10	11	11	00	00	00	1	00	10	01	00	10	01	01	00	00	11	00	
2	11	11	01	11	11	10	11	11	11	00	00	00	2	10	10	01	00	11	01	11	01	00	00	01	01
3	11	01	01	11	11	10	10	11	11	00	10	00	3	11	10	00	00	10	01	01	01	00	00	11	01
4	11	01	01	11	11	10	10	10	01	00	01	00	4	10	11	01	00	11	01	01	01	00	00	10	10
5	11	01	11	11	10	10	10	10	11	10	11	00	5	10	11	11	00	11	01	01	01	00	00	10	00
6	11	01	10	11	11	10	10	01	11	00	01	00	6	10	11	01	00	11	11	01	01	00	00	11	00
7	11	01	11	11	10	10	10	01	11	00	01	00	7	10	11	01	10	11	11	01	11	00	00	11	01
8	11	01	11	11	10	10	10	01	10	00	01	00	8	10	11	01	11	10	11	01	11	00	00	01	01
9	11	01	11	10	11	10	10	01	10	00	11	00	9	10	11	00	00	11	01	01	01	01	00	01	01
10	11	01	11	10	11	10	10	11	11	10	11	00	10	10	11	01	00	11	01	01	01	01	00	11	00
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13	11	01	11	10	11	11	10	10	11	00	11	00	13	10	10	01	00	10	01	01	01	00	10	11	11
14	11	01	11	10	11	10	11	11	11	00	11	00	14	10	11	01	01	10	01	01	00	01	00	00	01
15	11	01	11	10	11	10	11	11	11	10	10	00	15	10	11	00	11	11	01	11	00	00	00	01	00
16	11	01	11	11	11	10	11	11	11	00	10	00	16	00	10	01	00	11	01	01	01	00	01	00	00
17	11	01	11	11	10	10	11	11	11	11	00	00	17	10	11	01	01	11	01	01	01	00	01	10	00
18	11	01	11	11	11	10	10	11	11	00	10	00	18	10	11	01	01	11	01	00	00	00	10	00	00
19	11	01	11	11	10	10	11	11	01	00	00	00	19	00	10	01	01	11	01	00	01	00	00	00	00
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21	11	00	10	11	10	10	11	01	01	00	00	00	21	10	10	01	01	11	01	01	01	00	01	01	01
22	11	01	11	11	10	10	11	11	11	00	10	00	22	00	11	01	01	10	01	01	01	00	00	00	01
23	11	01	11	11	10	10	10	01	01	00	11	00	23	10	11	01	01	10	11	01	11	00	00	10	01
24	11	01	11	11	10	10	11	01	11	01	10	00	24	11	10	01	01	10	01	01	01	00	01	01	01
25	11	01	11	11	10	10	11	01	01	00	10	00	25	10	10	01	11	10	11	01	01	00	00	11	01
26	11	01	11	10	11	10	11	11	00	00	11	00	26	10	11	01	01	11	01	01	11	00	01	11	01
27	11	01	11	10	11	10	11	11	11	00	10	00	27	11	10	01	01	11	01	01	11	00	00	11	01
28	11	01	11	10	11	10	11	11	11	00	00	00	28	10	10	01	01	10	01	00	01	00	00	10	00
29	11	00	11	10	11	10	11	11	10	00	00	00	29	10	00	01	01	11	01	00	00	01	11	01	01
30	11	00	11	11	11	11	10	11	10	00	00	00	30	11	00	01	11	10	01	10	01	00	01	00	01
31	11	00	11	00	00	00	11	11	00	10	00	00	31	11	00	01	00	10	00	01	11	00	01	00	11

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1985)
 ESTACION: CHILCAYA

CODIGO : 01030050 9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1986)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC								
1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0								
2	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0							
3	1	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0							
4	0	1	0	0	0	0	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	1	0						
5	0	0	0	0	1	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0	0	1	0					
6	0	0	0	1	1	1	0	0	1	0	0	0	0	6	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0				
7	1	0	1	0	0	0	1	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0				
8	1	0	1	1	0	0	0	0	0	1	0	0	0	8	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0				
9	0	0	0	0	0	1	0	0	0	0	0	0	0	9	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0				
10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0				
11	0	0	0	1	0	1	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0				
12	0	1	0	0	0	1	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0				
13	0	1	1	0	0	1	0	0	0	0	0	0	0	13	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0				
14	1	1	0	0	0	1	0	0	0	0	0	0	0	14	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0			
15	1	0	0	0	1	0	0	0	0	0	0	0	0	15	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0			
16	0	1	0	0	1	1	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
17	1	1	0	0	1	1	0	1	0	1	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
18	0	1	1	0	0	0	0	0	0	1	0	0	0	18	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0		
19	0	1	0	1	0	1	0	0	1	0	0	0	0	19	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0			
20	0	1	0	0	0	1	0	0	0	1	1	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0			
21	1	1	0	0	0	1	0	1	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0			
22	1	0	0	1	0	1	1	1	0	0	0	0	0	22	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0		
23	0	1	0	1	0	1	1	0	0	0	1	0	0	23	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0		
24	0	1	1	0	0	1	0	0	0	0	0	0	0	24	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
25	0	1	0	1	0	0	0	0	0	1	0	0	0	25	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0		
26	0	1	0	1	0	0	0	0	0	1	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	
27	0	1	0	1	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	
28	0	1	1	0	0	0	0	0	0	0	1	0	0	28	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	
29	0	0	0	0	1	0	0	0	0	1	1	0	0	29	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	
30	0	0	0	0	1	0	1	1	1	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0
31	0	0	0	0	1	0	0	0	0	1	0	0	0	31	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1987)
 ESTACION: CHILCAYA CODIGO : 01030050 9

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00
2	00	00	00	00	00	00	00	00	00	00	00	00
3	00	00	00	00	00	00	00	00	00	00	00	00
4	00	00	00	00	00	00	00	00	00	00	00	00
5	00	10	00	00	00	00	00	00	00	00	00	00
6	00	10	00	00	00	00	00	00	00	00	00	00
7	00	10	00	00	00	00	00	00	00	00	00	00
8	00	00	00	00	00	00	00	00	00	00	00	00
9	00	10	00	00	00	00	00	00	00	00	00	00
10	00	01	00	00	00	00	00	00	00	00	00	00
11	00	11	00	00	00	00	00	00	00	00	00	00
12	00	11	01	00	00	00	00	00	00	00	00	00
13	00	11	00	00	00	00	00	00	00	00	00	00
14	10	11	00	00	00	00	00	00	00	00	00	00
15	00	10	00	00	00	00	00	00	00	00	00	00
16	00	11	00	00	00	00	00	00	00	00	00	00
17	00	10	00	00	00	00	00	00	00	00	00	00
18	00	01	00	00	00	00	00	00	00	00	00	00
19	00	11	00	00	00	00	00	00	00	00	00	00
20	00	11	00	00	00	00	00	00	00	00	00	00
21	00	11	10	00	00	00	00	00	00	00	00	00
22	00	10	00	00	00	00	00	00	00	00	00	00
23	00	01	00	00	00	00	00	00	00	00	00	00
24	00	00	00	00	00	00	00	00	00	00	00	00
25	00	00	00	00	00	00	00	00	00	00	00	00
26	00	00	00	00	00	00	00	00	00	00	00	00
27	00	00	00	00	00	00	00	00	00	00	00	00
28	00	00	00	00	00	00	00	00	00	00	00	00
29	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00
31	00	00	00	00	00	00	00	00	00	00	00	00

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1988)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00
2	00	00	00	00	00	00	00	00	00	00	00	00
3	00	00	00	00	00	00	00	00	00	00	00	00
4	00	00	00	00	00	00	00	00	00	00	00	00
5	00	00	00	00	00	00	00	00	00	00	00	00
6	00	00	00	00	00	00	00	00	00	00	00	00
7	00	00	00	00	00	00	00	00	00	00	00	00
8	00	00	00	00	00	00	00	00	00	00	00	00
9	00	00	00	00	00	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00	00	00	00	00	00
11	00	00	00	00	00	00	00	00	00	00	00	00
12	00	00	00	00	00	00	00	00	00	00	00	00
13	00	00	00	00	00	00	00	00	00	00	00	00
14	00	00	00	00	00	00	00	00	00	00	00	00
15	00	00	00	00	00	00	00	00	00	00	00	00
16	00	00	00	00	00	00	00	00	00	00	00	00
17	00	00	00	00	00	00	00	00	00	00	00	00
18	00	00	00	00	00	00	00	00	00	00	00	00
19	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00
21	00	00	00	00	00	00	00	00	00	00	00	00
22	00	00	00	00	00	00	00	00	00	00	00	00
23	00	00	00	00	00	00	00	00	00	00	00	00
24	00	00	00	00	00	00	00	00	00	00	00	00
25	00	00	00	00	00	00	00	00	00	00	00	00
26	00	00	00	00	00	00	00	00	00	00	00	00
27	00	00	00	00	00	00	00	00	00	00	00	00
28	00	00	00	00	00	00	00	00	00	00	00	00
29	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00
31	00	00	00	00	00	00	00	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.4 Estación Coyacaqua

3.4.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur 20° 03' y Longitud Oeste 68° 50' a una altura de 3990 msnm.

Posee estadística de lecturas directas a partir de Noviembre de 1961 y registro termográficos desde Octubre de 1980.

3.4.2 Información existente

La tabla 8 muestra la información existente de la estación de lecturas directas, la que totaliza 298 meses (hasta Diciembre de 1988). La tabla 9 muestra la información existente de termogramas la que totaliza 110 meses.

3.4.3 Información traducida

En esta estación existe un período de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero de 1986 a Diciembre de 1989, (48 meses) y de registros termográficos que va desde Octubre de 1980 a Noviembre de 1984, con excepción de Febrero de 1981. Por lo tanto la traducción por parte del consultor abarca 262 meses de lecturas directas y 61 meses de registros termográficos.

3.4.4 Validación

Se ha efectuado una entre las lecturas del higrotermógrafo y las lecturas directas en el período que les es común, usando el período total de información existente.

Los factores de corrección aplicados a los termogramas se muestran en la tabla 10.

El período de temperaturas anómalas, corresponde a un período bastante más lluvioso que lo general, como se puede apreciar en los formularios de lecturas directas en aquellos períodos, la temperatura aumenta.

Después de aplicadas los factores de corrección mediante un proceso computacional se ha descartado todos los valores de Lecturas directas máximas y mínimas fuera del rango ± 1.9 . Se incluye un listado con el detalle de los valores eliminados.

ESTACION COYACAGUA

TABLA B

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
17/11/61	19/8/62	17/11/61	19/8/82
21/8/62	3/6/63	21/8/62	3/6/63
8/6/63	7/7/63	8/6/63	7/7/63
10/7/63	3/6/67	10/7/63	4/6/67
6/6/67	5/9/67	6/6/67	5/9/67
7/9/67	30/6/69	7/9/67	30/6/69
1/8/69	30/9/69	1/8/69	30/9/69
1/11/69	9/1/71	1/11/69	9/1/71
20/1/71	31/5/71	20/1/71	31/5/71
1/8/71	17/8/72	1/8/71	17/8/72
27/8/72	30/6/73	27/8/72	30/6/73
1/1/74	31/3/76	1/1/74	31/3/76
18/5/77	22/5/77	18/5/77	23/5/77
25/5/77	18/7/77	25/5/77	19/7/77
23/7/77	31/8/77	23/7/77	31/8/77
21/9/77	4/11/77	21/9/77	4/11/77
7/11/77	17/4/78	7/11/77	18/4/78
22/4/78	30/6/79	22/4/78	30/6/79
1/8/79	31/7/80	1/8/79	31/7/80
1/10/80	30/11/80	1/10/80	30/11/80
1/2/81	9/1/82	1/2/81	9/1/82
15/1/82	3/2/82	15/1/82	4/2/82
11/2/82	30/11/82	11/2/82	19/5/82
6/12/82	7/4/84	11/6/82	30/11/82
14/4/84	21/4/84	6/12/82	7/4/84
26/4/84	8/7/84	14/4/84	21/4/84
11/7/84	18/8/84	1/5/84	8/7/84
21/8/84	24/8/84	11/7/84	18/8/84
28/8/84	4/11/84	21/8/84	24/8/84
7/11/84	26/1/85	28/8/84	4/11/84
29/1/85	28/4/85	7/11/84	26/1/85
2/5/85	25/5/85	29/1/85	28/4/85
1/6/85	23/11/85	2/5/85	25/5/85
29/11/85	31/5/86	1/6/85	23/11/85
3/6/86	26/11/86	29/11/85	31/5/86
1/12/86	24/4/87	3/6/86	26/11/86
28/4/87	17/5/87	2/12/86	24/4/87
21/5/87	4/1/88	28/4/87	17/5/87
13/1/88	9/4/88	21/5/87	5/1/88
19/4/88	26/9/88	13/1/88	10/4/88
30/9/88	4/10/88	19/4/88	26/9/88
6/10/88	1/1/89	30/9/88	4/10/88
		6/10/88	1/1/89

TABLA 9

TERMOGRAMAS

DESDE	HASTA
14/10/80	1/12/80
29/12/80	5/1/81
23/3/81	15/1/82
18/1/82	11/4/84
16/4/84	28/4/84
30/4/84	1/1/90

TABLA 10

FACTORES DE CORRECCION

INICIO	TERMINO	FC
31 12 84	07 01 85	+1.0
25 02 85	04 03 85	-2.0
04 03 85	18 03 85	-1.0
01 04 85	08 04 85	+1.0
20 05 85	27 05 85	+1.5
03 06 85	10 06 85	+1.5
10 06 85	17 06 85	+2.0
08 07 85	15 07 85	+1.0
02 09 85	09 09 85	+1.0
16 09 85	23 09 85	+1.0
30 09 85	07 10 85	-1.0
28 10 85	04 11 85	-1.0
02 12 85	09 12 85	+1.0
23 12 85	30 12 85	+1.0
30 12 85	06 01 86	+2.0
06 01 86	13 01 86	+1.5
20 01 86	27 01 86	+2.0
03 02 86	10 02 86	+2.0
24 02 86	03 03 86	-1.5
10 03 86	24 03 86	+1.0
12 05 86	19 05 86	-0.5
02 06 86	09 06 86	-0.5
30 06 86	07 07 86	+1.0
21 07 86	28 07 86	-1.0
08 09 86	15 09 86	+1.0
22 09 86	29 09 86	-2.0
29 09 86	06 10 86	-0.5
13 10 86	20 10 86	+1.5
10 11 86	17 11 86	+2.0
02 02 87	09 02 87	-1.0
11 05 87	18 05 87	+1.0
22 06 87	29 06 87	-1.5

TABLA 10 (continuación)

FACTORES DE CORRECCION

INICIO	TERMINO	FC
13 07 87	20 07 87	+1.0
27 07 87	03 08 87	+1.5
17 08 87	24 08 87	-1.5
26 10 87	02 11 87	-1.5
14 12 87	21 12 87	-1.0
25 01 88	01 02 88	-0.5
15 02 88	22 02 88	-1.0
22 02 88	29 02 88	-2.0
07 03 88	14 03 88	+1.5
28 03 88	11 04 88	+1.5
18 04 88	25 04 88	+1.0
25 04 88	02 05 88	+2.0
20 06 88	27 06 88	-1.0
25 07 88	01 08 88	-1.0
01 08 88	15 08 88	-1.5
15 08 88	22 08 88	-1.0
05 09 88	03 10 88	-1.0
10 10 88	17 10 88	-1.0
31 10 88	07 11 88	-1.0
14 11 88	21 11 88	-1.0
10 04 89	17 04 89	-1.0
24 04 89	01 05 89	-1.0
01 05 89	22 05 89	+1.0
22 05 89	05 06 89	-1.0
24 07 89	31 07 89	+1.0
07 08 89	02 10 89	-1.0
04 12 89	18 12 89	-1.0

Ademas se ha comparado las lecturas directas con los valores de termogramas traducidos con anterioridad por la DGA, en el periodo anterior a Diciembre 1984, con lo cual se han eliminado los valores de lecturas directas que al compararlos con los valores de los termogramas previamente ingresados por la DGA, dan una diferencia mayor a ± 1.9 . Se incluye un listado de los promedios mensuales y desviaciones estandard para las lecturas directas y termográficas en todo el periodo.

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : COYACAGUA

CODIGO: 01050050 B

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
61	1	0.00	0	0.000	0.00	0	0.000
62	1	19.64	31	1.984	-1.97	31	3.337
63	1	18.61	31	2.362	-5.06	31	2.394
64	1	18.85	31	1.997	-4.10	31	4.371
65	1	17.13	31	2.863	-4.13	31	3.322
66	1	19.55	31	1.827	-6.11	31	3.331
67	1	20.19	31	2.414	-4.87	31	5.105
68	1	16.69	31	1.493	-1.85	31	1.845
69	1	17.45	31	2.609	-1.31	31	2.738
70	1	18.52	31	1.913	-3.90	31	2.196
71	1	18.88	21	2.366	-1.93	21	3.685
72	1	15.32	31	2.242	-1.26	31	1.914
73	1	16.26	31	2.705	-0.73	31	4.179
74	1	16.45	31	2.800	0.63	31	2.890
75	1	17.26	31	2.670	-1.03	31	3.235
76	1	15.75	31	1.867	0.74	31	4.073
77	1	0.00	0	0.000	0.00	0	0.000
78	1	16.58	31	2.024	-1.62	31	3.661
79	1	16.45	31	2.307	3.21	31	1.637
80	1	19.37	31	2.044	-1.14	31	3.413
81	1	0.00	0	0.000	0.00	0	0.000
82	1	17.02	26	2.179	-1.33	18	2.926
83	1	19.33	26	1.934	-4.13	25	2.639
84	1	14.19	29	2.596	0.57	29	2.471
85	1	16.69	29	1.848	-4.29	28	4.414
86	1	18.31	30	2.324	1.21	27	2.359
87	1	15.94	29	2.617	2.47	30	3.124
88	1	18.91	22	1.896	0.17	23	3.268
89	1	17.82	31	1.748	-3.61	30	2.022
61	2	0.00	0	0.000	0.00	0	0.000
62	2	18.82	28	1.588	-2.69	28	2.547
63	2	17.00	28	2.494	-6.18	28	2.374
64	2	19.43	29	2.470	-1.21	29	2.721
65	2	18.88	28	2.879	-4.21	28	2.594
66	2	19.18	28	2.393	-4.95	28	3.062
67	2	17.61	28	2.823	-0.11	28	2.238
68	2	15.10	29	2.568	0.34	29	2.472
69	2	17.93	28	2.841	-0.43	28	2.758
70	2	18.38	28	2.150	-3.23	28	2.030
71	2	16.13	26	1.957	-0.35	27	2.695
72	2	15.83	29	2.346	-2.66	29	1.648
73	2	16.48	28	1.751	-0.36	28	4.020
74	2	16.02	28	2.057	-0.23	28	2.693
75	2	14.63	28	2.021	0.00	28	2.203
76	2	16.63	28	3.200	0.71	28	2.514
77	2	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : COYACAGUA

CODIGO: 01050050 B

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
78	2	19.03	28	2.755	-2.28	28	3.299
79	2	19.58	28	1.504	-2.54	28	3.203
80	2	19.19	29	2.013	-0.95	29	4.880
81	2	15.71	28	1.863	1.52	28	2.633
82	2	17.53	15	2.066	-4.18	11	4.051
83	2	19.38	20	3.195	-3.02	25	2.654
84	2	14.07	28	2.146	1.31	21	3.807
85	2	15.87	27	1.719	1.50	27	3.723
86	2	17.13	26	1.475	-1.61	26	3.237
87	2	17.57	28	2.397	-3.07	27	3.525
88	2	18.22	28	1.119	-4.79	28	2.874
89	2	17.78	28	1.773	1.97	15	1.578
61	3	0.00	0	0.000	0.00	0	0.000
62	3	19.00	31	2.191	-5.40	31	2.448
63	3	17.39	31	2.499	-5.00	31	1.897
64	3	18.69	31	2.400	-3.00	31	2.972
65	3	18.50	31	2.113	-5.31	31	2.623
66	3	19.26	31	2.129	-5.44	31	3.054
67	3	17.61	31	2.963	-0.50	31	2.834
68	3	16.63	31	1.455	-1.85	31	1.845
69	3	18.87	31	1.477	-2.61	31	3.565
70	3	18.19	31	2.780	-3.71	31	2.901
71	3	18.24	31	1.774	-6.10	31	1.800
72	3	17.06	31	2.044	-3.55	31	2.063
73	3	18.73	31	1.944	-2.63	31	2.553
74	3	17.85	31	1.467	-5.08	31	4.087
75	3	18.13	31	1.713	-2.11	31	2.085
76	3	18.41	31	2.042	3.10	31	2.608
77	3	0.00	0	0.000	0.00	0	0.000
78	3	19.00	31	2.098	-1.72	31	5.065
79	3	18.45	31	2.550	2.85	31	1.851
80	3	19.37	31	2.091	3.04	31	3.656
81	3	16.32	25	2.193	2.31	24	2.608
82	3	17.24	27	3.300	-4.29	28	2.327
83	3	20.41	22	2.823	-3.65	29	2.337
84	3	16.20	30	1.448	-0.43	27	2.467
85	3	17.29	31	1.482	-1.51	31	3.750
86	3	16.14	31	2.236	-0.73	31	2.389
87	3	15.78	30	2.867	-3.32	31	2.576
88	3	17.25	30	3.036	-1.15	30	2.898
89	3	16.87	23	1.726	0.00	0	0.000
61	4	0.00	0	0.000	0.00	0	0.000
62	4	16.20	30	3.916	-4.43	30	3.308
63	4	19.13	30	3.170	-2.93	30	1.015
64	4	18.53	30	1.907	-6.92	30	2.795

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : COYACAGUA

CODIGO: 01050050 8

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
65	4	18.05	30	1.967	-8.40	30	2.824
66	4	17.80	30	2.548	-8.75	30	2.341
67	4	17.55	30	2.031	-4.67	30	5.233
68	4	15.52	30	2.358	-8.30	30	3.106
69	4	18.03	30	1.907	-6.70	30	3.036
70	4	17.83	30	1.657	-7.42	30	2.816
71	4	14.90	30	2.036	-8.63	30	3.203
72	4	15.60	30	2.458	-7.88	30	3.067
73	4	15.27	30	2.572	-7.50	30	2.779
74	4	16.35	30	2.707	-7.00	30	3.189
75	4	16.78	30	2.227	-6.82	30	2.952
76	4	0.00	0	0.000	0.00	0	0.000
77	4	0.00	0	0.000	0.00	0	0.000
78	4	17.32	26	3.006	-2.16	27	3.115
79	4	16.51	30	1.962	-1.24	30	1.749
80	4	16.47	30	2.331	0.72	30	2.997
81	4	11.00	11	3.233	-6.17	3	2.363
82	4	15.24	27	2.355	-6.59	28	4.546
83	4	18.75	10	1.768	-5.44	20	2.287
84	4	15.13	20	2.339	-0.54	7	7.443
85	4	16.31	28	1.805	-5.39	28	3.171
86	4	16.00	29	2.361	-6.01	29	2.256
87	4	15.45	27	3.141	-6.56	27	1.939
88	4	17.18	21	2.043	-3.04	22	3.767
89	4	14.53	30	2.989	0.00	0	0.000
61	5	0.00	0	0.000	0.00	0	0.000
62	5	15.90	31	3.037	-7.82	31	3.618
63	5	17.39	31	3.263	-2.68	31	1.351
64	5	16.29	31	2.462	-9.98	31	2.743
65	5	15.21	31	3.027	-10.92	31	1.941
66	5	12.34	31	2.059	-9.65	31	2.879
67	5	15.50	31	2.288	-7.63	31	2.878
68	5	13.08	31	2.000	-8.18	31	3.718
69	5	14.39	31	1.687	-10.81	31	1.626
70	5	14.58	31	4.493	-8.92	31	3.905
71	5	11.69	31	2.261	-11.39	31	1.820
72	5	14.52	31	2.379	-9.56	31	4.185
73	5	14.11	31	1.726	-11.06	31	2.414
74	5	13.63	31	2.164	-12.21	31	2.408
75	5	12.76	31	2.206	-10.06	31	3.363
76	5	0.00	0	0.000	0.00	0	0.000
77	5	11.13	12	2.084	-12.92	13	1.783
78	5	15.27	31	2.941	-3.13	31	2.573
79	5	16.35	31	1.202	-5.29	31	1.706
80	5	14.41	31	2.434	-6.54	31	3.448
81	5	13.30	10	1.918	-10.07	7	2.050

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : COYACAGUA CODIGO: 01050050 8

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
82	5	11.75	26	2.527	-9.91	11	2.897
83	5	11.58	6	3.666	-7.24	18	3.388
84	5	13.95	28	3.140	-8.59	27	2.531
85	5	14.34	23	2.067	-8.68	23	2.780
86	5	12.36	30	2.559	-10.00	29	2.912
87	5	11.12	28	2.793	-6.57	26	3.217
88	5	12.42	31	2.810	-7.26	28	2.951
89	5	13.67	31	2.862	0.00	0	0.000
61	6	0.00	0	0.000	0.00	0	0.000
62	6	13.20	30	3.178	-12.48	30	3.202
63	6	12.46	26	4.072	-9.19	26	4.167
64	6	14.08	30	2.653	-11.47	30	1.991
65	6	14.50	29	1.773	-11.92	30	3.046
66	6	11.63	30	3.466	-11.32	30	4.656
67	6	10.04	28	2.928	-9.57	29	2.969
68	6	11.60	30	2.995	-10.50	30	3.216
69	6	10.65	30	3.171	-13.02	30	3.995
70	6	12.37	30	2.959	-9.83	30	4.176
71	6	0.00	0	0.000	0.00	0	0.000
72	6	12.73	30	1.574	-12.50	30	3.419
73	6	13.85	30	2.826	-9.78	30	3.092
74	6	10.02	30	2.884	-11.53	30	3.674
75	6	9.85	30	2.640	-10.28	30	4.070
76	6	0.00	0	0.000	0.00	0	0.000
77	6	13.29	30	1.877	-14.25	30	1.521
78	6	13.16	30	2.121	-6.39	30	2.019
79	6	13.39	30	2.584	-4.81	30	2.502
80	6	14.21	30	1.654	-11.63	30	2.905
81	6	10.19	8	2.890	-11.17	3	3.617
82	6	9.28	29	3.029	-11.36	17	2.530
83	6	0.00	0	0.000	-5.26	18	4.467
84	6	9.13	28	2.089	-7.84	27	2.548
85	6	10.99	29	2.316	-9.39	30	2.451
86	6	11.81	28	2.565	-12.27	25	2.291
87	6	10.83	23	2.698	-8.54	21	4.373
88	6	11.63	30	2.819	-10.93	30	2.986
89	6	11.33	30	1.705	0.00	0	0.000
61	7	0.00	0	0.000	0.00	0	0.000
62	7	13.13	31	3.181	-10.58	31	5.307
63	7	14.34	29	1.421	-10.28	29	2.234
64	7	11.84	31	3.195	-11.97	31	2.760
65	7	10.65	30	2.252	-12.00	31	3.573
66	7	13.18	31	2.535	-15.02	31	2.100
67	7	9.77	31	1.663	-9.03	31	3.149
68	7	12.19	31	2.701	-12.16	31	2.437

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : COYACAGUA CODIGO: 01050050 B

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
69	7	0.00	0	0.000	0.00	0	0.000
70	7	11.92	31	2.978	-12.06	31	2.632
71	7	0.00	0	0.000	0.00	0	0.000
72	7	11.77	31	1.769	-10.13	31	3.173
73	7	0.00	0	0.000	0.00	0	0.000
74	7	12.68	31	3.896	-10.66	31	3.891
75	7	11.60	31	2.099	-14.21	31	2.243
76	7	0.00	0	0.000	0.00	0	0.000
77	7	11.02	27	2.259	-13.06	28	3.921
78	7	13.02	31	1.940	-8.90	31	3.209
79	7	0.00	0	0.000	0.00	0	0.000
80	7	11.96	31	2.268	-7.86	31	2.569
81	7	12.65	10	2.625	-13.88	4	1.031
82	7	12.47	31	2.284	-11.85	30	2.110
83	7	10.02	26	2.229	-9.38	26	3.429
84	7	10.79	28	2.401	-10.64	27	1.610
85	7	10.50	31	2.749	-11.20	30	3.338
86	7	10.76	30	2.497	-12.39	28	3.258
87	7	10.20	29	3.283	-7.37	30	3.594
88	7	12.38	31	2.988	-10.63	29	2.599
89	7	10.56	26	2.416	0.00	0	0.000
61	8	0.00	0	0.000	0.00	0	0.000
62	8	14.10	30	3.642	-11.39	30	4.746
63	8	14.81	31	2.985	-9.37	31	2.291
64	8	11.28	30	3.925	-11.92	31	3.992
65	8	14.08	30	1.474	-12.13	30	3.615
66	8	12.69	31	3.038	-12.55	31	4.166
67	8	12.73	31	2.330	-11.52	31	3.100
68	8	12.05	31	1.908	-12.21	31	3.170
69	8	13.27	31	2.816	-10.98	30	2.634
70	8	14.50	31	1.835	-12.81	31	2.877
71	8	13.90	31	1.326	-13.55	31	1.562
72	8	13.05	22	2.734	-12.14	22	1.656
73	8	0.00	0	0.000	0.00	0	0.000
74	8	10.65	31	2.864	-9.42	31	3.963
75	8	12.05	31	2.271	-12.56	31	3.504
76	8	0.00	0	0.000	0.00	0	0.000
77	8	12.77	31	3.899	-12.96	31	3.744
78	8	13.79	31	2.490	-3.84	31	2.992
79	8	15.68	31	1.850	-6.53	31	2.006
80	8	0.00	0	0.000	0.00	0	0.000
81	8	11.26	29	3.886	-9.63	28	3.357
82	8	14.03	29	2.307	-10.88	27	2.203
83	8	12.76	27	2.383	-10.36	22	2.431
84	8	8.82	25	2.830	-9.73	23	3.127
85	8	13.08	28	2.766	-9.15	30	3.515

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : COYACAGUA CODIGO: 01050050 8

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
86	8	11.78	30	3.714	-9.19	31	3.734
87	8	13.55	30	2.636	-9.88	31	2.270
88	8	15.55	30	2.713	-11.49	31	1.729
89	8	12.52	31	2.463	0.00	0	0.000
61	9	0.00	0	0.000	0.00	0	0.000
62	9	15.55	30	4.442	-3.55	30	2.268
63	9	12.68	30	3.164	-8.48	30	3.845
64	9	14.70	30	2.830	-11.83	30	2.368
65	9	11.82	30	2.483	-7.82	30	2.796
66	9	15.60	30	4.199	-10.10	30	2.830
67	9	15.38	29	2.441	-8.52	29	3.135
68	9	14.97	30	2.399	-11.40	30	2.618
69	9	15.90	30	2.746	-9.32	30	3.430
70	9	15.80	30	3.713	-11.03	30	2.274
71	9	14.85	30	3.294	-10.77	30	2.337
72	9	13.40	30	2.787	-8.72	30	2.917
73	9	0.00	0	0.000	0.00	0	0.000
74	9	13.52	30	2.708	-9.72	30	4.323
75	9	12.08	30	2.134	-10.08	30	3.851
76	9	0.00	0	0.000	0.00	0	0.000
77	9	16.80	10	1.653	-11.95	10	2.242
78	9	14.58	30	2.750	-2.67	30	2.660
79	9	15.02	30	2.458	-0.94	30	3.057
80	9	0.00	0	0.000	0.00	0	0.000
81	9	12.69	29	2.537	-10.22	27	2.857
82	9	13.55	28	2.455	-8.28	26	3.331
83	9	11.41	13	1.883	-8.47	6	2.311
84	9	13.16	27	2.393	-11.62	28	1.978
85	9	13.14	29	2.092	-8.68	29	3.821
86	9	13.66	30	2.739	-9.01	29	2.519
87	9	13.56	30	2.593	-9.14	29	3.067
88	9	13.88	22	3.492	-7.16	25	3.794
89	9	12.40	29	2.144	0.00	0	0.000
61	10	0.00	0	0.000	0.00	0	0.000
62	10	15.87	31	2.837	-4.10	31	2.055
63	10	18.48	31	2.853	-8.00	31	2.904
64	10	15.00	31	3.804	-10.18	31	3.729
65	10	16.33	30	2.106	-9.11	31	2.604
66	10	18.21	31	2.866	-8.03	31	3.170
67	10	17.60	31	2.336	-8.84	31	3.009
68	10	15.60	31	3.048	-8.48	31	2.587
69	10	0.00	0	0.000	0.00	0	0.000
70	10	17.79	31	2.555	-10.24	31	3.068
71	10	14.96	30	2.591	-11.79	31	3.437
72	10	16.68	31	4.110	-6.94	31	3.132

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : COYACAGUA CODIGO: 01050050 B

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
73	10	0.00	0	0.000	0.00	0	0.000
74	10	12.00	31	2.742	-10.10	31	2.669
75	10	15.56	31	2.626	-10.60	31	2.322
76	10	0.00	0	0.000	0.00	0	0.000
77	10	16.26	31	2.796	-8.05	31	3.756
78	10	17.46	31	2.991	-0.17	31	4.179
79	10	17.97	31	2.412	0.41	31	3.651
80	10	16.10	31	2.336	-6.79	29	3.883
81	10	14.23	28	3.026	-8.84	25	2.090
82	10	16.19	27	2.198	-6.46	28	3.882
83	10	13.77	11	2.306	-8.24	16	1.988
84	10	17.15	30	1.953	-5.44	30	2.876
85	10	17.12	31	1.607	-9.25	30	1.460
86	10	14.96	31	3.278	-8.90	30	2.720
87	10	15.14	30	3.130	-7.15	31	2.567
88	10	15.45	30	2.208	-9.21	30	2.667
89	10	17.97	30	2.216	0.00	0	0.000
61	11	20.75	14	1.578	-5.91	14	3.930
62	11	18.07	30	2.677	-4.40	30	1.133
63	11	18.70	30	3.405	-7.77	30	3.344
64	11	17.12	30	2.062	-7.60	30	2.881
65	11	17.53	30	2.840	-8.18	30	2.585
66	11	17.30	30	3.064	-7.77	30	2.712
67	11	18.60	29	2.923	-9.70	30	2.976
68	11	17.20	30	1.850	-4.40	30	5.062
69	11	18.80	30	2.538	-7.43	30	2.988
70	11	16.90	30	2.780	-9.88	30	2.700
71	11	16.77	30	2.071	-9.37	30	3.632
72	11	18.42	30	2.739	-6.75	30	2.427
73	11	0.00	0	0.000	0.00	0	0.000
74	11	17.68	30	2.002	-8.80	30	3.137
75	11	16.37	30	2.489	-11.28	30	2.135
76	11	0.00	0	0.000	0.00	0	0.000
77	11	19.13	28	2.581	-6.99	28	2.474
78	11	19.62	30	2.050	0.50	30	3.159
79	11	20.37	30	2.126	-0.18	30	2.770
80	11	17.78	23	2.868	-7.83	24	3.700
81	11	18.10	29	2.465	-7.03	29	2.702
82	11	18.20	30	2.200	-4.63	30	2.480
83	11	17.25	6	0.935	-9.39	14	1.391
84	11	17.83	27	2.724	-3.90	25	3.651
85	11	16.74	25	2.658	-4.53	24	4.191
86	11	17.57	25	2.112	-3.97	24	4.060
87	11	19.34	29	1.621	-5.83	30	2.585
88	11	17.87	30	2.071	-8.12	29	2.934
89	11	15.97	29	1.965	0.00	0	0.000

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : COYACAGUA CODIGO: 01050050 B

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
61	12	18.81	31	2.741	-2.71	31	2.795
62	12	17.87	31	1.875	-3.13	31	1.522
63	12	20.31	31	1.926	-4.30	31	2.270
64	12	17.23	31	2.735	-6.32	31	4.112
65	12	19.24	31	2.689	-4.53	31	3.952
66	12	19.26	31	2.327	-6.02	31	3.934
67	12	18.08	31	2.236	-3.82	31	3.534
68	12	18.66	31	2.185	-6.15	31	4.172
69	12	19.30	30	2.351	-6.43	30	3.498
70	12	19.94	31	1.697	-7.82	31	2.603
71	12	18.94	31	2.283	-5.31	31	3.151
72	12	18.69	31	1.773	-5.15	31	3.722
73	12	0.00	0	0.000	0.00	0	0.000
74	12	18.90	31	1.344	-6.92	31	3.963
75	12	17.53	31	3.067	3.58	31	3.244
76	12	0.00	0	0.000	0.00	0	0.000
77	12	18.50	31	2.304	-5.11	31	3.400
78	12	19.21	31	2.112	1.54	31	2.200
79	12	18.45	31	2.577	2.84	31	3.198
80	12	0.00	0	0.000	0.00	0	0.000
81	12	19.28	30	2.525	-3.92	26	4.381
82	12	17.90	26	1.200	-6.03	26	2.072
83	12	19.10	29	1.858	-4.99	30	2.663
84	12	17.73	30	2.843	-5.33	31	2.562
85	12	17.61	31	1.607	-1.73	30	3.292
86	12	17.55	30	2.129	-0.29	30	3.746
87	12	18.85	28	2.463	-6.80	29	2.394
88	12	17.97	31	2.849	-4.19	31	2.478
89	12	18.09	29	1.418	0.00	0	0.000

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : COYACABUA

CODIGO: 01050050 8

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
80	1	0.00	0	0.000	0.00	0	0.000
81	1	17.88	4	0.250	-3.00	4	1.581
82	1	17.62	27	2.305	-0.34	27	2.891
83	1	18.48	30	2.183	-4.56	31	2.943
84	1	14.12	31	2.577	0.76	31	2.430
85	1	16.35	30	2.119	-4.64	31	4.316
86	1	17.55	30	2.106	1.37	30	2.274
87	1	15.35	30	2.289	2.12	31	3.039
88	1	19.50	31	2.373	-0.12	31	3.396
89	1	17.77	31	1.748	-3.88	31	2.533
80	2	0.00	0	0.000	0.00	0	0.000
81	2	0.00	0	0.000	0.00	0	0.000
82	2	17.54	27	2.609	-3.38	28	4.684
83	2	19.52	28	3.994	-2.87	27	2.984
84	2	13.50	28	2.349	1.80	28	2.965
85	2	15.67	28	1.875	0.68	27	4.021
86	2	17.03	28	1.686	-1.13	28	3.308
87	2	17.71	28	2.635	-2.80	28	3.949
88	2	18.32	28	1.303	-5.35	28	2.979
89	2	17.76	28	1.882	-0.05	28	2.632
80	3	0.00	0	0.000	0.00	0	0.000
81	3	14.67	9	2.622	-8.56	8	1.821
82	3	16.69	15	3.740	-1.80	14	2.788
83	3	19.50	28	3.142	-4.05	28	2.832
84	3	15.94	31	1.764	-0.76	31	2.697
85	3	17.35	31	1.677	-1.91	31	3.718
86	3	16.14	31	2.178	-0.89	31	2.117
87	3	16.03	31	2.897	-3.54	31	2.332
88	3	17.51	31	3.121	-1.08	31	2.837
89	3	16.78	31	1.751	-2.45	31	2.369
80	4	0.00	0	0.000	0.00	0	0.000
81	4	11.59	28	2.502	-7.95	28	4.465
82	4	13.76	21	1.488	-9.08	22	2.152
83	4	15.05	29	3.307	-7.04	30	2.652
84	4	14.77	24	2.506	-6.52	23	2.633
85	4	16.30	29	1.715	-5.82	30	3.217
86	4	16.10	30	2.295	-5.95	30	2.317
87	4	15.72	29	3.067	-6.88	30	2.201
88	4	16.33	30	2.957	-4.53	29	4.240
89	4	14.68	30	3.172	-4.51	30	2.842
80	5	0.00	0	0.000	0.00	0	0.000
81	5	11.78	29	2.086	-12.46	29	2.681
82	5	10.55	31	3.045	-11.30	31	3.458
83	5	9.31	27	2.774	-10.50	26	2.596

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : COYACAGUA

CODIGO: 01050050 B

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
84	5	14.02	30	3.341	-8.18	31	4.060
85	5	13.87	31	2.253	-9.35	31	2.413
86	5	12.07	31	3.080	-10.26	31	2.970
87	5	10.88	30	2.803	-6.58	31	3.601
88	5	12.09	31	2.747	-7.75	31	3.276
89	5	13.51	30	2.685	-9.22	31	1.814
80	6	0.00	0	0.000	0.00	0	0.000
81	6	7.52	26	2.385	-13.99	30	2.486
82	6	8.47	30	3.146	-11.15	30	3.280
83	6	5.43	30	2.318	-7.29	30	4.691
84	6	8.19	29	2.763	-7.82	29	3.214
85	6	10.91	30	2.390	-9.53	30	2.309
86	6	12.17	30	2.846	-12.26	30	2.114
87	6	10.52	30	2.962	-9.15	30	3.822
88	6	11.92	30	3.061	-11.47	30	3.065
89	6	11.27	30	1.860	-10.50	30	2.705
80	7	0.00	0	0.000	0.00	0	0.000
81	7	8.83	27	3.754	-16.89	31	2.565
82	7	11.80	27	2.513	-12.23	28	1.932
83	7	9.43	27	2.601	-9.11	27	3.813
84	7	9.76	31	2.546	-11.01	31	1.707
85	7	10.32	31	2.820	-11.62	31	3.447
86	7	10.90	31	2.592	-12.43	31	3.494
87	7	10.23	31	3.186	-7.23	31	3.426
88	7	12.67	31	3.229	-10.59	31	2.802
89	7	10.51	31	2.424	-10.77	31	3.206
80	8	0.00	0	0.000	0.00	0	0.000
81	8	11.59	27	4.782	-8.98	31	3.479
82	8	14.02	31	2.603	-10.33	31	2.446
83	8	11.86	29	2.765	-10.26	30	2.935
84	8	8.30	28	2.811	-10.17	29	3.399
85	8	12.83	31	3.193	-9.75	31	3.795
86	8	11.91	31	3.845	-9.27	31	3.774
87	8	13.63	31	3.021	-10.27	31	2.321
88	8	15.36	31	2.961	-11.71	31	1.951
89	8	12.17	31	2.808	-11.54	31	3.144
80	9	0.00	0	0.000	0.00	0	0.000
81	9	12.60	28	2.890	-9.68	30	3.371
82	9	14.00	30	2.620	-7.67	30	3.278
83	9	11.50	30	2.232	-9.09	30	3.704
84	9	12.03	30	2.619	-12.36	30	1.920
85	9	13.20	29	2.289	-9.07	29	3.919
86	9	14.09	30	2.552	-8.88	30	2.489
87	9	13.87	30	2.787	-8.78	30	3.465

PROMEDIOS MENSUALES DE TERMOGRAMAS
 ESTACION : COYACAGUA CODIGO: 01050050 B

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
88	9	13.17	30	3.539	-7.62	30	3.910
89	9	13.02	30	2.467	-9.57	30	2.564
80	10	17.18	17	1.968	-4.59	17	3.369
81	10	13.91	29	2.891	-9.15	31	2.020
82	10	16.39	31	2.167	-6.09	31	4.331
83	10	12.73	31	2.623	-9.29	31	3.221
84	10	16.27	31	2.156	-5.56	31	3.373
85	10	17.27	31	1.721	-9.53	31	1.542
86	10	15.29	31	3.275	-9.28	31	2.651
87	10	15.42	31	3.374	-7.17	31	2.639
88	10	15.31	31	2.190	-9.62	31	2.915
89	10	17.85	31	2.293	-7.96	31	2.767
80	11	15.63	27	3.766	-8.69	30	3.665
81	11	17.92	30	2.865	-6.78	30	3.359
82	11	18.03	30	2.508	-4.83	30	2.660
83	11	14.40	30	3.885	-10.13	30	2.569
84	11	16.73	30	3.337	-4.66	30	3.909
85	11	16.67	29	2.424	-4.30	30	4.177
86	11	17.44	30	2.408	-4.81	30	4.266
87	11	19.44	30	1.804	-6.56	30	2.600
88	11	17.84	30	2.238	-8.45	30	3.069
89	11	15.74	30	2.050	-7.59	30	2.318
80	12	19.00	2	0.000	-7.50	2	0.000
81	12	19.70	31	2.017	-3.33	31	4.533
82	12	17.71	29	1.584	-5.11	29	4.104
83	12	18.56	31	2.068	-5.18	31	2.678
84	12	17.81	31	2.879	-5.61	31	2.667
85	12	17.60	31	1.815	-1.67	31	3.709
86	12	17.59	30	2.084	-0.63	31	4.163
87	12	19.65	31	2.917	-6.73	31	3.266
88	12	17.92	31	2.908	-4.51	31	2.520
89	12	18.14	29	1.611	-7.09	29	2.104

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1980)
 ESTACION: COYACAGUA CODIGO : 01050050 8

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1981)
 ESTACION: COYACAGUA CODIGO : 01050050 8

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	10	00	1	00	00	00	11	01	01	11	00	00	00	11	00
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	11	11	11	11	00	01	00	01	00
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	01	00	11	11	00	00	00	01	00
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	11	11	11	11	00	01	00	01	00
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	11	10	11	11	00	00	00	01	00
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	11	00	11	01	00	00	00	01	00
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	11	01	11	01	01	00	00	01	00
8	00	00	00	00	00	00	00	00	00	00	10	00	8	00	00	00	11	10	01	11	00	00	00	01	00
9	00	00	00	00	00	00	00	00	00	00	11	00	9	00	00	00	11	01	01	11	00	00	01	01	00
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	11	00	11	01	00	00	01	01	00
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	11	00	11	01	01	00	00	01	00
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	10	11	11	00	10	00	00	01	00
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	11	01	11	01	00	10	00	01	01
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	11	11	11	11	00	01	00	01	01
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	11	11	01	11	01	00	00	01	10
16	00	00	00	00	00	00	00	00	00	00	11	00	16	00	00	00	01	10	11	11	00	00	00	01	00
17	00	00	00	00	00	00	00	00	00	00	10	00	17	00	00	00	01	11	11	11	00	00	00	01	00
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	01	11	11	11	00	00	00	01	00
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	11	11	11	11	00	00	00	01	00
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	01	11	11	01	00	00	00	01	00
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	11	11	11	11	00	00	01	01	01
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	11	11	11	11	00	00	01	01	00
23	00	00	00	00	00	00	00	00	00	00	01	00	23	00	00	00	01	11	11	11	00	00	11	01	00
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	11	01	01	11	11	00	00	10	01	00
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	11	10	11	11	11	00	00	00	01	01
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	11	00	11	11	11	10	00	11	00	00
27	00	00	00	00	00	00	00	00	00	00	01	01	27	00	00	11	11	01	00	01	00	00	00	00	00
28	00	00	00	00	00	00	00	00	00	00	01	00	28	00	00	11	01	11	00	11	00	00	00	01	00
29	00	00	00	00	00	00	00	00	00	00	01	10	29	00	00	11	01	11	01	00	00	00	00	01	00
30	00	00	00	00	00	00	00	00	00	00	11	00	30	00	00	01	01	11	00	00	00	00	00	01	01
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	01	00	11	00	10	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1982)
 ESTACION: COYACAGUA CDDIGD : 01050050 8

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1983)
 ESTACION: COYACAGUA CDDIGD : 01050050 8

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	01	00	00	00	11	00	00	00	00	00	00	00	1	00	00	00	11	10	11	10	01	11	00	10	00
2	01	01	00	00	00	00	00	00	00	01	00	00	2	00	00	10	10	10	10	01	00	00	00	11	00
3	01	01	00	00	10	00	00	01	00	00	00	00	3	00	10	10	10	11	10	00	00	00	00	00	00
4	01	01	00	00	00	00	00	00	10	10	00	00	4	00	10	01	00	11	10	11	01	11	00	10	00
5	00	00	00	00	00	00	00	00	10	11	00	00	5	00	10	00	11	11	11	10	00	10	10	10	00
6	00	00	00	00	11	00	00	00	00	00	00	00	6	00	10	10	11	10	10	11	00	01	10	10	00
7	00	00	00	00	00	00	00	01	00	00	00	00	7	00	00	00	10	00	10	00	00	11	10	10	00
8	00	00	10	00	01	00	00	11	00	00	00	00	8	00	00	00	00	01	10	00	00	01	10	10	00
9	00	00	10	00	00	00	00	00	00	00	00	00	9	01	00	00	10	10	11	00	00	01	10	11	00
10	00	00	01	00	00	00	00	00	00	00	00	00	10	00	00	00	00	11	10	00	00	11	00	01	00
11	00	11	01	00	01	01	00	00	00	11	00	00	11	00	00	00	10	11	11	01	00	11	00	00	10
12	00	11	11	00	00	00	00	00	00	00	00	00	12	00	00	00	11	00	10	00	00	11	00	11	00
13	00	11	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	11	00	00	11	10	11	00
14	00	11	00	00	00	00	01	00	00	10	00	00	14	00	00	00	00	00	10	00	00	00	11	10	00
15	00	00	10	00	01	00	00	11	00	00	00	00	15	00	00	00	00	00	11	00	00	11	11	11	00
16	00	00	00	00	11	00	00	00	00	00	00	00	16	10	01	00	00	10	11	00	00	11	01	00	00
17	00	00	00	00	01	00	00	00	00	00	00	00	17	00	10	00	00	11	11	00	00	01	01	01	00
18	00	00	00	00	00	01	00	00	00	00	00	00	18	11	01	00	10	11	10	00	00	01	01	10	00
19	00	01	00	00	01	00	00	00	00	00	00	00	19	01	00	10	11	11	11	00	00	01	11	11	00
20	01	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	11	11	10	00	00	11	10	11	00
21	01	01	00	00	00	00	00	00	00	00	00	00	21	00	10	00	11	10	11	10	00	11	10	10	00
22	01	11	00	00	00	00	00	00	01	00	00	00	22	00	10	00	10	10	10	00	00	01	01	11	00
23	00	00	00	00	10	01	00	00	00	00	00	00	23	10	00	00	10	10	10	00	00	11	11	01	00
24	00	11	00	00	00	00	00	00	00	00	00	00	24	00	00	10	11	11	10	00	00	01	11	10	00
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	01	00	10	11	10	00	11	10	11	11	00
26	00	00	00	00	00	00	00	00	01	01	00	00	26	00	00	00	10	11	10	00	11	10	11	11	00
27	00	00	00	01	00	10	00	00	00	00	00	00	27	00	00	00	11	10	10	00	11	01	11	11	00
28	00	00	00	10	00	00	00	00	01	00	00	00	28	11	10	10	11	10	11	00	11	01	11	11	00
29	01	00	00	10	00	00	00	00	00	00	00	00	29	10	00	11	00	10	11	00	01	11	11	11	11
30	00	00	00	11	00	00	00	00	00	00	00	00	30	01	00	10	00	10	10	00	01	11	10	10	00
31	00	00	00	00	00	00	00	00	00	00	00	00	31	01	00	10	00	10	00	01	01	00	11	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1984)
 ESTACION: COYACAGUA CODIGO : 01050050 8

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1985)
 ESTACION: COYACAGUA CODIGO : 01050050 8

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	01	01	00	00	01	00	00	00	01	10	1	01	00	00	00	00	00	00	00	00	00		
2	00	00	00	01	00	00	11	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	01	00	01	01	00	00	00	00	00	00	01	00	3	00	10	00	00	00	00	00	00	00	00		
4	00	00	00	01	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	01	00	00	00	01	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	01	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	01	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	10	00	00		
8	00	01	10	00	00	00	00	00	00	00	00	00	8	00	00	00	00	01	00	00	10	00	00		
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	10	00	00		
10	00	00	00	00	10	00	00	00	00	00	00	00	10	00	00	00	00	00	00	01	01	00	00		
11	00	01	01	00	00	00	00	00	00	01	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	00	01	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00		
13	00	10	01	00	01	00	00	00	00	00	00	00	13	00	00	00	00	00	10	00	00	00	00		
14	00	01	00	00	10	01	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	01		
15	00	00	00	00	01	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	01	00	00	00	00	00	01	10	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	01	01	00	00	00	00	00	01	00	00	11	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	01	00	01	00	00	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	00	00	00	00	10	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	10	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	00	00	00	00	10	00	10	00	00	00	00	23	00	01	00	00	00	00	00	00	00	00		
24	10	00	00	00	00	11	00	00	11	00	00	00	24	00	00	00	00	00	00	10	00	00	00		
25	00	00	00	00	01	01	00	00	01	00	00	00	25	00	00	00	00	10	00	00	00	00	00		
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	01	00	00	10	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	01	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	01	00	00	00	00		
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	01	00		
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	10	00	00	31	00	00	00	00	00	00	00	00	00	00		

{1 1} : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1986)
 ESTACION: COYACAGUA CDD160 : 01050050 8

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1987)
 ESTACION: COYACAGUA CDD160 : 01050050 8

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	10	00	00	01	00	00	00	00	00	00	00	00	1	00	00	00	00	00	10	00	00	00	00		
2	00	00	00	00	00	00	01	10	00	00	00	00	2	00	01	00	00	00	00	00	00	00	10	00	
3	00	00	00	10	00	00	00	00	00	00	00	00	3	01	00	00	00	00	00	00	00	10	00	00	
4	00	00	00	00	01	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00	00	
5	00	01	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00	00	
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	10	00	00	00	00	00	
7	00	00	00	00	00	00	00	00	00	00	00	10	7	00	00	00	00	01	00	00	00	00	00	00	
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00	00	
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00	00	
10	00	10	00	00	00	00	00	00	00	00	10	00	10	00	00	00	00	00	00	00	00	00	00	00	
11	00	00	00	00	00	00	10	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00	00	
12	01	10	00	00	00	01	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00	00	
13	01	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00	00	
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00	00	
15	00	00	00	00	00	00	00	00	00	00	01	00	15	00	00	00	00	00	00	00	01	00	00	00	
16	00	00	00	00	00	00	00	00	00	00	01	00	16	00	00	00	00	00	00	00	00	00	00	00	
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00	00	
18	00	00	00	00	00	00	00	00	00	01	00	00	18	00	00	00	00	00	00	00	00	00	00	00	
19	00	00	00	00	00	00	01	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00	00	
20	00	00	00	00	00	00	01	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00	00	
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	01	00	00	00	00	10	
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	10	00	00	00	00	11	
23	01	00	00	00	00	01	00	00	00	00	00	00	23	00	00	00	00	00	11	00	00	00	00	10	
24	01	00	00	00	11	00	00	00	00	00	00	00	24	00	00	00	00	00	11	00	10	00	00	01	
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	01	11	00	00	00	00	00	
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	11	00	00	00	00	00	
27	00	00	00	00	00	00	00	00	01	00	00	00	27	00	00	00	00	00	11	00	00	00	00	00	
28	00	01	00	00	00	00	00	00	00	00	00	00	28	10	00	00	00	00	11	00	00	00	00	00	
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	01	01	00	00	00	00	
30	00	00	00	00	00	00	00	00	00	00	10	00	30	00	00	10	00	00	01	00	00	00	00	00	
31	00	00	00	00	00	00	00	00	00	00	00	00	31	10	00	00	00	00	00	00	00	00	00	00	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1988)
 ESTACION: CDYACAGUA CDDIGD : 01050050 B

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1989)
 ESTACION: CDYACAGUA CDDIGD : 01050050 B

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00
2	00	00	10	00	00	00	00	00	00	00	00	00
3	00	00	00	00	01	00	00	00	00	00	00	00
4	00	00	00	00	00	00	00	00	00	00	00	00
5	00	00	00	00	00	00	00	00	00	00	00	00
6	00	00	00	00	00	00	00	00	00	00	01	00
7	00	00	00	00	00	00	00	00	00	00	00	00
8	00	00	00	00	00	00	00	00	00	00	00	00
9	00	00	00	00	00	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00	00	00	00	00	00
11	00	00	00	00	00	00	00	00	00	00	00	00
12	00	00	00	00	00	00	01	00	00	00	00	00
13	00	01	01	00	00	00	00	00	00	00	00	00
14	00	00	00	00	00	00	00	00	00	00	00	00
15	00	00	00	00	01	00	00	00	00	00	00	00
16	00	00	00	00	00	00	00	01	00	00	00	00
17	00	00	00	00	00	00	10	00	00	00	00	00
18	11	00	00	00	00	00	00	00	00	00	00	00
19	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	10	00	00	00	00
21	00	00	00	00	00	00	00	00	00	00	00	00
22	00	00	00	00	01	00	00	11	00	00	00	00
23	00	00	00	00	00	00	00	10	00	00	00	00
24	00	00	00	00	00	00	00	00	00	00	00	00
25	00	00	00	00	00	00	00	10	00	00	00	00
26	00	00	00	00	00	00	00	10	00	00	00	00
27	00	00	00	00	00	00	01	00	00	00	00	00
28	00	00	00	00	00	00	00	00	00	00	00	00
29	00	10	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00
31	00	00	00	00	00	00	00	00	00	00	00	00

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00
2	00	00	00	00	00	00	00	00	00	00	00	00
3	00	00	00	00	00	00	10	00	00	00	00	00
4	00	00	00	00	00	00	00	00	00	00	00	00
5	00	00	00	00	00	00	00	00	00	00	00	00
6	00	00	00	00	00	00	00	00	00	00	00	00
7	00	00	00	00	00	00	00	10	00	00	00	00
8	00	00	00	00	00	00	00	10	00	00	00	00
9	00	00	00	00	00	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00	00	00	00	00	00
11	00	00	00	00	00	00	00	00	00	00	00	00
12	00	00	00	00	00	00	00	00	00	00	00	00
13	00	00	00	00	00	00	00	00	00	00	00	00
14	00	00	00	00	00	00	00	00	00	00	00	00
15	00	00	00	00	00	00	00	00	00	00	00	00
16	00	00	00	00	00	00	00	00	00	00	00	00
17	00	00	00	00	00	00	00	00	00	00	00	00
18	00	00	00	00	00	00	00	00	00	00	00	00
19	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	10	00	00	00	00	00	10	00	00	00
21	00	00	00	00	00	00	00	00	00	00	00	00
22	00	00	00	00	00	00	00	00	00	00	00	00
23	00	00	00	00	00	00	00	10	00	00	00	00
24	00	00	00	00	00	00	00	00	00	00	00	00
25	00	00	00	00	00	00	00	10	00	00	00	00
26	00	00	00	00	00	00	00	10	00	00	00	00
27	01	00	00	00	00	00	00	00	00	00	00	00
28	00	00	00	00	00	00	00	00	00	00	10	00
29	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00
31	00	00	00	00	00	00	00	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.5 Estación Pacollo

3.5.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur $18^{\circ} 10'$ y Longitud Oeste $69^{\circ} 29'$ a una altura de 4030 msnm.

Posee estadística de lecturas directas a partir de 06/11/1978 y registro termográficos desde 20/11/1978.

3.5.2 Información existente

La tabla 11 muestra la información existente de la estación de lecturas directas, la que totaliza 130 meses. La tabla 12 muestra la información existente de termogramas la que totaliza 132 meses.

3.5.3 Información traducida

En esta estación existe un período de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero 1986 a Diciembre 1989, (48 meses) y registros termográficos desde Noviembre de 1978 a Noviembre de 1984, con excepción de Agosto y Septiembre de 1980 y Enero de 1981 (70 meses). Por lo tanto la traducción por parte del consultor abarca 82 meses de lecturas directas y 62 meses de registros termográficos.

3.5.4 Validación

Se ha efectuado una entre las lecturas del higrómetro y las lecturas directas en el período que les es común, usando el período total de información existente.

Los factores de corrección aplicados a los termogramas se muestran en la tabla 13.

Después de aplicadas los factores de corrección mediante un proceso computacional se ha descartado todos los valores de Lecturas directas máximas y mínimas fuera del rango ± 1.9 . Se incluye un listado con el detalle de los valores eliminados.

ESTACION FACOLLO

TABLA 11

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
6/11/78	30/8/79	6/11/78	6/4/79
1/9/79	28/10/79	6/4/79	28/10/79
1/11/79	31/7/80	1/11/79	31/7/80
1/10/80	31/10/80	1/10/80	31/10/80
1/12/80	31/12/80	1/12/80	31/12/80
1/2/81	28/9/85	1/2/81	25/6/86
30/9/85	31/12/89	27/6/86	31/12/89

ESTACION FACOLLO

TABLA 12

TERMORANAS

DESDE	HASTA
20/11/78	30/4/79
8/5/79	18/6/79
19/6/79	27/6/79
29/6/79	27/8/79
3/9/79	1/12/79
3/12/79	8/12/79
17/12/79	20/1/80
21/1/80	9/2/80
11/2/80	24/7/80
30/9/80	3/11/80
1/12/80	29/12/80
2/2/81	18/7/83
19/7/83	19/9/83
20/9/83	31/12/84
1/1/85	28/10/85
4/11/85	12/11/85
13/11/85	4/4/86
7/4/86	3/9/86
5/9/86	31/1/87
1/2/87	14/9/87
17/9/87	19/9/87
20/9/87	22/10/87
23/10/87	24/10/87
26/10/87	1/11/87
2/11/87	8/11/87

ESTACION FACOLLO

TABLA 12 (Continuación)

TERMOGRAMAS

DESDE	HASTA
10/11/87	12/11/87
13/11/87	14/11/87
16/11/87	27/12/87
28/12/87	4/1/88
8/2/88	17/1/89
18/1/89	1/1/90

TABLA 13

FACTORES DE CORRECCION

INICIO	TERMINO	FC
10 03 80	17 03 80	+1.2
17 03 80	24 03 80	+2.0
31 03 80	07 04 80	+3.0
07 04 80	21 04 80	+2.0
21 04 80	28 04 80	+3.0
28 04 80	30 04 80	+5.0
30 04 80	09 11 81	+2.5
31 12 81	03 01 83	+2.0
03 01 83	10 01 83	-2.3
10 01 83	17 01 83	-2.0
17 01 83	24 01 83	-1.9
31 01 83	04 04 83	-1.3
04 04 83	11 04 83	-1.5
18 04 83	25 04 83	-1.0
25 04 83	09 05 83	+1.0
09 05 83	16 05 83	+1.5
16 05 83	23 05 83	-1.0
25 05 83	30 05 83	-1.3
30 05 83	31 05 83	-2.0
31 05 83	08 10 84	-5.0
08 10 84	15 10 84	+1.8
31 10 84	03 12 84	+4.0
03 12 84	10 12 84	+2.0
10 12 84	24 12 84	+3.5
14 01 85	21 01 85	+3.5
21 01 85	28 01 85	+2.3
28 01 85	04 02 85	+2.0
11 02 85	18 02 85	-1.0
10 06 85	17 06 85	+1.0

TABLA 13 (continuación)
FACTORES DE CORRECCION

INICIO	TERMINO	FC
16 12 85	23 12 85	-1.0
24 02 86	03 03 86	-1.0
09 06 86	16 06 86	-1.0
30 06 86	14 07 86	-1.0
04 08 86	11 08 86	-0.9
06 10 86	13 10 86	-1.0
20 10 86	27 10 86	-1.0
05 01 87	19 01 87	-1.0
13 07 87	20 07 87	-2.0
02 11 87	09 11 87	-1.0
30 11 87	07 12 87	+2.9
07 12 87	14 12 87	+1.0
08 02 88	15 02 88	-1.0
14 03 88	21 03 88	+1.0
25 04 88	02 05 88	-1.0
11 07 88	18 07 88	+1.6
24 10 88	31 10 88	-1.0
26 12 88	02 01 89	+1.0
16 01 89	23 01 89	+2.0
27 02 89	06 03 89	+1.0
05 06 89	12 06 89	-1.0

Ademas se ha comparado las lecturas directas con los valores de termogramas traducidos con anterioridad por la DGA, en el periodo anterior a Diciembre 1984, con lo cual se han eliminado los valores de lecturas directas que al compararlos con los valores de los termogramas previamente ingresados por la DGA, dan una diferencia mayor a ± 1.9 . Se incluye un listado de los promedios mensuales y desviaciones estandard para las lecturas directas y termográficas en todo el periodo.

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : PACOLLO CODIGO: 01202050 3

ano	mes	FROM(MAX)	N DIAS	D.ESTANDAR	FROM(MIN)	N DIAS	D.ESTANDARD
78	1	0.00	0	0.000	0.00	0	0.000
79	1	11.10	22	1.651	1.14	16	0.885
80	1	11.59	18	1.748	-3.64	7	3.734
81	1	0.00	0	0.000	0.00	0	0.000
82	1	8.75	4	2.723	-2.10	10	2.492
83	1	14.14	28	0.980	0.66	22	1.554
84	1	7.27	21	1.267	-0.73	17	1.028
85	1	9.23	22	2.344	-2.42	25	1.841
86	1	10.64	29	1.737	1.90	29	1.611
87	1	9.96	28	1.750	2.08	29	1.527
88	1	11.80	31	2.061	0.91	30	1.620
89	1	9.01	27	1.470	-0.86	28	1.335
78	2	0.00	0	0.000	0.00	0	0.000
79	2	11.46	19	1.124	0.38	21	0.936
80	2	11.49	15	1.031	0.00	0	0.000
81	2	10.80	10	0.823	-1.06	12	1.326
82	2	9.17	3	0.289	-3.25	12	1.994
83	2	12.00	4	0.707	-0.35	17	1.998
84	2	8.14	22	1.172	1.43	20	1.730
85	2	10.64	21	1.051	1.24	20	1.933
86	2	9.07	27	1.774	0.04	26	1.385
87	2	11.75	26	1.408	0.92	25	2.142
88	2	12.46	25	1.499	1.41	27	1.251
89	2	7.70	24	1.450	-0.67	26	1.552
78	3	0.00	0	0.000	0.00	0	0.000
79	3	10.78	20	2.417	2.26	23	1.569
80	3	12.17	25	1.623	5.73	12	1.853
81	3	9.00	1	0.000	0.23	13	2.497
82	3	11.13	4	1.315	-1.75	18	0.974
83	3	12.50	2	0.707	1.08	26	0.966
84	3	9.83	18	1.557	0.49	21	1.656
85	3	11.10	21	1.310	-0.35	24	1.514
86	3	8.76	30	2.640	1.00	30	1.491
87	3	10.55	29	1.676	-0.79	29	1.852
88	3	10.44	30	2.076	2.04	27	1.626
89	3	7.92	30	2.093	-1.02	28	2.085
78	4	0.00	0	0.000	0.00	0	0.000
79	4	11.65	26	1.159	0.75	17	1.582
80	4	12.89	13	1.048	-1.37	3	0.635
81	4	10.50	3	0.866	-2.92	13	0.703
82	4	11.25	2	1.061	-4.19	13	2.554
83	4	13.10	24	1.324	-0.21	20	1.201
84	4	10.90	10	1.197	-1.29	26	1.986
85	4	10.48	23	1.641	-0.63	24	1.637

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : PACOLLD

CODIGO: 01202050 3

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
86	4	10.80	29	1.013	-0.27	27	1.816
87	4	10.04	30	2.262	-1.50	27	2.323
88	4	10.42	23	1.460	0.02	28	2.925
89	4	9.24	23	1.453	-1.34	21	1.951
78	5	0.00	0	0.000	0.00	0	0.000
79	5	11.52	27	0.741	7.10	2	0.141
80	5	12.13	6	0.700	-2.90	6	3.650
81	5	11.50	3	0.000	-3.17	18	1.553
82	5	9.19	8	0.961	-5.40	10	1.524
83	5	10.99	23	1.892	-2.18	22	1.925
84	5	0.00	0	0.000	-4.35	20	2.482
85	5	11.02	25	1.104	-2.48	22	1.220
86	5	8.73	30	1.363	-3.32	30	1.643
87	5	7.70	27	1.410	-2.94	28	1.811
88	5	10.19	29	1.620	-1.52	25	1.135
89	5	9.97	23	0.941	-1.99	26	1.463
78	6	0.00	0	0.000	0.00	0	0.000
79	6	10.29	10	1.652	-1.56	15	2.092
80	6	13.40	1	0.000	0.00	0	0.000
81	6	9.20	5	0.837	-5.76	21	1.125
82	6	8.36	7	1.345	-5.81	18	1.373
83	6	7.86	25	1.534	-3.33	3	0.764
84	6	6.67	3	0.577	-5.09	22	1.992
85	6	8.96	27	1.330	-3.48	27	1.275
86	6	9.55	27	1.601	-2.42	28	1.408
87	6	8.53	26	1.269	-3.10	21	1.887
88	6	8.70	26	1.427	-3.29	28	1.870
89	6	7.43	29	1.232	-3.66	29	1.363
78	7	0.00	0	0.000	0.00	0	0.000
79	7	8.58	23	1.068	-0.76	26	1.487
80	7	11.45	2	1.202	-1.47	28	0.194
81	7	8.79	12	1.900	-7.30	15	1.449
82	7	8.82	11	1.328	-5.83	12	0.985
83	7	9.44	25	1.499	-3.82	9	2.449
84	7	7.00	4	1.871	-6.46	27	1.255
85	7	8.44	26	1.551	-5.13	23	1.753
86	7	8.11	30	1.524	-4.35	30	2.019
87	7	7.78	26	2.283	-3.53	26	1.074
88	7	8.54	28	1.822	-3.73	29	1.750
89	7	6.35	30	1.554	-4.62	26	1.675
78	8	0.00	0	0.000	0.00	0	0.000
79	8	10.33	10	0.921	-3.14	25	1.624
80	8	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : FACOLLO CODIGO: 01202030 3

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
81	8	8.83	17	2.390	-4.64	11	1.451
82	8	9.17	9	1.061	-3.95	22	0.912
83	8	9.34	22	1.928	-3.54	25	1.990
84	8	7.67	3	0.289	-6.62	25	1.244
85	8	10.07	21	1.660	-2.52	29	1.516
86	8	9.00	29	2.297	-2.67	24	1.100
87	8	10.40	29	1.644	-2.63	27	1.172
88	8	11.34	27	1.656	-2.63	30	1.673
89	8	7.71	29	1.184	-4.34	29	1.004
78	9	0.00	0	0.000	0.00	0	0.000
79	9	10.41	27	1.272	-2.88	25	1.317
80	9	0.00	0	0.000	0.00	0	0.000
81	9	8.78	9	2.078	-5.95	10	1.755
82	9	11.05	10	0.725	-3.16	22	1.117
83	9	7.00	6	2.453	-3.99	18	1.996
84	9	9.50	2	0.707	-6.60	10	1.101
85	9	10.14	25	1.686	-3.00	18	1.150
86	9	9.89	29	1.473	-2.00	30	1.448
87	9	12.39	22	2.321	-1.55	28	2.907
88	9	10.42	27	2.055	-2.30	24	1.795
89	9	8.21	30	1.118	-4.18	29	1.332
78	10	0.00	0	0.000	0.00	0	0.000
79	10	10.86	20	1.137	-3.53	10	1.894
80	10	11.33	3	0.764	-1.58	19	1.764
81	10	10.50	7	1.135	-3.94	8	1.116
82	10	10.75	8	0.463	-2.75	16	1.612
83	10	10.56	14	1.909	-3.92	24	1.158
84	10	10.63	8	0.916	-3.93	7	1.427
85	10	11.53	29	1.431	-2.48	31	1.424
86	10	10.06	31	1.724	-2.22	28	1.556
87	10	13.32	23	3.526	1.51	27	2.933
88	10	10.58	30	1.886	-2.56	31	1.969
89	10	9.54	28	1.081	-2.45	28	1.443
78	11	11.87	25	1.029	-0.77	20	2.203
79	11	12.08	17	1.104	-2.50	7	0.603
80	11	0.00	0	0.000	0.00	0	0.000
81	11	12.86	21	1.074	-2.70	10	2.700
82	11	12.00	2	2.121	-1.42	18	1.691
83	11	12.17	21	1.104	-3.72	10	1.286
84	11	10.17	3	0.289	-2.14	18	1.764
85	11	10.20	27	1.903	-0.83	30	2.318
86	11	10.73	29	1.605	-0.94	30	2.062
87	11	13.20	30	1.817	-1.06	29	1.356
88	11	12.02	29	1.562	-1.62	26	1.815

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : FACOLLO CODIGO: 01202050 3

anio	mes	FROM(MAX)	N DIAS	D.ESTANDAR	FROM(MIN)	N DIAS	D.ESTANDARD
89	11	10.09	30	0.952	-2.02	28	1.883
78	12	11.81	26	0.940	1.28	19	1.687
79	12	13.07	15	2.765	-5.91	14	1.947
80	12	10.90	5	1.025	-2.59	23	1.813
81	12	11.92	13	1.778	-3.27	15	1.668
82	12	13.06	8	1.178	-1.22	27	1.683
83	12	11.92	22	0.956	-0.18	19	1.772
84	12	11.36	22	1.283	-1.07	23	1.351
85	12	10.83	27	2.457	0.67	30	1.331
86	12	9.99	31	1.863	0.93	31	2.684
87	12	12.10	27	1.495	-1.09	20	2.001
88	12	10.17	24	1.692	-1.59	28	2.056
89	12	10.05	28	1.029	-1.68	24	1.362

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : FACOLLO

CODIGO: 01202050 3

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
79	1	10.02	31	2.086	1.94	31	1.161
80	1	9.99	29	1.350	-0.07	27	2.637
82	1	7.32	31	1.696	-0.85	31	1.819
83	1	14.21	28	2.302	1.87	28	1.529
84	1	6.56	31	1.870	0.09	31	1.453
85	1	8.60	30	2.359	-1.82	30	2.140
86	1	10.52	31	1.489	1.75	31	2.157
87	1	9.90	29	1.843	1.95	30	1.648
88	1	12.13	3	0.208	0.43	4	0.814
89	1	8.76	30	1.249	-0.59	29	1.649
79	2	11.19	28	1.026	1.23	28	1.698
80	2	9.72	27	1.703	0.19	24	2.196
81	2	7.80	20	1.881	0.68	19	1.742
82	2	7.49	28	0.985	-1.29	28	1.830
83	2	10.39	28	1.390	0.31	28	1.811
84	2	6.99	28	1.262	0.85	28	2.123
85	2	10.13	28	2.106	1.32	28	1.628
86	2	8.88	27	1.649	0.14	27	1.586
87	2	12.42	18	2.140	1.18	23	1.745
88	2	14.03	21	1.430	1.84	20	1.390
89	2	7.55	28	1.872	-0.67	28	1.415
79	3	9.23	31	2.217	2.34	31	1.536
80	3	13.00	21	1.415	2.45	21	1.543
81	3	8.18	31	1.589	0.03	31	1.648
82	3	7.94	31	1.975	-1.12	31	2.003
83	3	10.52	31	1.387	0.40	31	1.411
84	3	8.31	31	1.504	1.23	31	1.559
85	3	10.55	31	1.946	-0.26	31	1.655
86	3	9.72	26	2.517	0.77	27	1.449
87	3	10.99	31	1.741	-0.84	30	2.047
88	3	11.06	25	2.242	1.68	25	1.964
89	3	8.02	31	1.748	-1.04	31	2.178
79	4	11.38	29	1.075	1.19	29	1.346
80	4	11.47	30	1.780	-0.65	30	2.022
81	4	8.12	30	1.278	-1.08	30	1.935
82	4	7.84	30	2.412	-2.78	30	2.979
83	4	13.76	30	1.170	1.37	30	1.770
84	4	8.56	30	1.863	-1.00	30	1.852
85	4	10.33	30	1.745	-0.98	30	1.676
86	4	10.76	25	0.959	-0.36	26	1.862
87	4	10.61	30	2.173	-1.18	30	2.818
88	4	10.18	30	2.063	-0.11	30	3.169
89	4	9.34	30	1.894	-0.88	30	1.829
79	5	10.93	23	0.964	-0.25	21	0.814

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : FACOLLO

CODIGO: 01202050 3

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
80	5	8.28	31	2.193	-3.03	31	2.129
81	5	8.08	31	1.566	-2.72	31	1.568
82	5	6.58	31	1.832	-4.88	31	1.501
83	5	10.30	30	2.326	-1.99	31	2.357
84	5	6.39	31	1.637	-3.79	31	2.028
85	5	10.50	31	1.293	-1.70	31	1.674
86	5	8.97	31	1.654	-3.39	31	1.789
87	5	8.25	31	1.424	-3.51	31	1.831
88	5	10.03	31	1.997	-0.85	31	1.454
89	5	9.52	30	1.795	-1.89	30	1.899
79	6	7.54	28	2.822	-2.66	25	2.448
80	6	8.50	30	1.446	-3.10	30	1.289
81	6	5.86	30	1.564	-5.10	30	1.616
82	6	3.87	30	1.938	-5.09	30	1.610
83	6	7.82	30	1.578	-1.98	30	1.438
84	6	3.70	30	2.071	-5.57	30	2.066
85	6	8.77	30	1.510	-3.04	30	1.531
86	6	9.81	30	1.725	-2.65	30	1.624
87	6	9.11	26	1.444	-3.15	29	2.398
88	6	8.75	30	1.637	-3.28	30	1.788
89	6	7.85	30	1.072	-3.85	30	1.460
79	7	7.90	31	2.248	-1.24	31	1.909
80	7	7.35	22	1.419	-2.16	23	1.652
81	7	6.56	31	2.496	-5.45	31	1.846
82	7	7.62	31	1.615	-4.03	31	1.408
83	7	8.96	30	1.458	-1.53	29	1.388
84	7	4.84	31	2.095	-5.94	31	1.697
85	7	8.77	30	2.057	-4.53	31	2.067
86	7	8.24	31	1.861	-4.64	31	1.952
87	7	7.50	26	2.477	-3.58	29	1.571
88	7	8.94	31	1.975	-3.54	31	1.764
89	7	6.40	29	1.900	-5.22	29	1.827
79	8	7.96	25	0.803	-4.16	25	0.997
81	8	7.48	31	2.830	-3.14	31	1.649
82	8	8.02	31	1.536	-3.94	31	1.340
83	8	8.35	31	2.352	-2.83	31	2.239
84	8	4.09	31	2.125	-6.34	31	1.567
85	8	10.30	31	1.536	-2.64	31	1.506
86	8	9.50	30	2.219	-2.53	31	1.325
87	8	10.62	28	1.599	-2.23	31	1.607
88	8	11.03	31	1.943	-2.42	31	1.911
89	8	8.08	31	1.426	-4.51	30	1.122
78	9	0.00	0	0.000	0.00	0	0.000
79	9	9.83	28	1.807	-2.25	27	1.586

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : PACOLLO

COORD: 01202050

3

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
81	9	7.53	30	1.943	-4.35	30	1.733
82	9	8.51	30	1.732	-2.73	30	1.186
83	9	5.50	29	2.805	-4.79	28	2.528
84	9	6.45	30	1.398	-5.45	30	1.379
85	9	9.74	28	2.072	-3.47	29	2.026
86	9	10.20	28	1.319	-2.41	27	1.382
87	9	12.18	20	4.055	-1.89	22	3.418
88	9	10.72	29	1.344	-1.25	28	1.908
89	9	8.50	30	1.116	-4.69	30	1.594
78	10	0.00	0	0.000	0.00	0	0.000
79	10	10.70	30	1.418	-0.80	31	2.136
80	10	8.56	31	1.537	-2.55	31	2.293
81	10	9.37	31	1.231	-2.47	31	1.770
82	10	9.36	31	1.609	-1.48	31	2.545
83	10	9.05	31	1.855	-3.05	31	1.463
84	10	6.57	31	4.045	-5.20	31	4.724
85	10	11.47	27	1.499	-2.32	28	1.488
86	10	10.68	31	1.866	-2.81	31	1.895
87	10	14.95	27	2.979	1.63	28	2.858
88	10	11.28	21	2.119	-2.92	19	2.277
89	10	10.04	31	1.193	-2.74	31	1.703
78	11	12.71	11	0.867	2.93	10	1.559
79	11	10.93	30	1.484	-0.59	30	1.477
80	11	9.50	2	0.707	-0.75	2	0.354
81	11	11.56	30	1.987	-1.01	30	2.535
82	11	9.48	30	1.973	-0.78	30	2.124
83	11	12.27	30	2.247	-0.51	30	2.475
84	11	6.17	30	1.434	-2.55	30	2.131
85	11	10.34	25	1.953	-0.24	23	1.880
86	11	11.11	30	1.338	-1.15	30	1.960
87	11	11.90	8	1.798	-0.64	9	2.087
88	11	12.05	24	1.399	-1.65	24	1.803
89	11	10.69	30	1.019	-2.04	29	1.664
78	12	12.35	31	1.120	1.49	31	1.846
79	12	8.81	21	2.052	-1.60	20	2.061
80	12	8.00	28	1.616	-2.91	27	1.776
81	12	9.82	31	2.107	-1.53	31	2.196
82	12	10.46	31	1.316	-0.70	31	1.914
83	12	10.52	31	1.180	0.13	31	1.628
84	12	10.62	29	1.445	-0.76	31	1.606
85	12	10.54	31	2.660	0.56	31	1.293
86	12	10.58	31	1.969	0.73	30	3.007
87	12	12.26	28	1.474	-0.96	29	1.986
88	12	9.67	30	1.281	-1.34	31	2.061
89	12	10.56	29	1.245	-1.71	29	1.765

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1978)
 ESTACION: PACOLLO

CODIGO : 01202050 3

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1979)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	01	00	11	00	00	00	01	01	00	00	11	
2	00	00	00	00	00	00	00	00	00	00	00	00	2	01	10	00	00	00	10	01	00	00	00	11	00
3	00	00	00	00	00	00	00	00	00	00	00	01	3	01	00	10	00	00	11	00	11	00	01	11	00
4	00	00	00	00	00	00	00	00	00	00	00	00	4	01	00	11	01	00	10	00	11	00	01	11	11
5	00	00	00	00	00	00	00	00	00	00	00	01	5	01	01	11	00	00	10	01	01	00	01	01	01
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	11	00	00	10	00	11	00	11	00	11
7	00	00	00	00	00	00	00	00	00	00	00	01	7	00	00	10	00	00	10	00	10	00	11	11	10
8	00	00	00	00	00	00	00	00	00	00	00	01	8	01	00	10	00	00	11	00	10	00	01	10	11
9	00	00	00	00	00	00	00	00	00	00	00	01	9	00	00	10	00	01	11	10	00	00	01	00	00
10	00	00	00	00	00	00	00	00	00	00	00	00	10	10	11	00	01	01	01	00	10	10	01	01	00
11	00	00	00	00	00	00	00	00	00	00	00	01	11	01	01	10	01	01	00	01	10	01	01	01	00
12	00	00	00	00	00	00	00	00	00	00	00	01	12	00	00	11	01	01	11	10	10	00	11	00	00
13	00	00	00	00	00	00	00	00	00	00	00	01	13	01	00	00	01	01	11	11	10	11	11	11	00
14	00	00	00	00	00	00	00	00	00	00	00	01	14	00	00	00	00	01	11	11	10	01	00	01	00
15	00	00	00	00	00	00	00	00	00	00	00	00	15	10	00	00	00	01	11	01	10	10	10	01	00
16	00	00	00	00	00	00	00	00	00	00	00	00	16	11	00	00	00	01	11	00	10	00	10	11	00
17	00	00	00	00	00	00	00	00	00	00	00	00	17	10	10	00	01	01	11	00	10	00	10	11	00
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	01	01	01	10	10	00	01	01	11
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	11	00	10	01	10	00	00	00	01	01	11
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	10	01	10	00	11	00	00	00	01	01	11
21	00	00	00	00	00	00	00	00	00	00	00	00	21	01	00	00	11	00	11	01	10	00	01	10	10
22	00	00	00	00	00	00	00	00	00	00	00	00	22	11	00	00	00	01	11	00	10	00	01	10	11
23	00	00	00	00	00	00	00	00	00	00	00	10	23	11	10	01	01	11	11	00	10	00	00	11	11
24	00	00	00	00	00	00	00	00	00	00	01	00	24	10	10	00	00	01	11	00	10	00	00	01	01
25	00	00	00	00	00	00	00	00	00	00	01	11	25	10	00	01	01	01	01	00	10	01	00	01	01
26	00	00	00	00	00	00	00	00	00	00	01	01	26	00	01	10	01	01	01	10	10	00	01	11	11
27	00	00	00	00	00	00	00	00	00	00	01	10	27	00	11	00	01	11	01	10	00	00	01	11	10
28	00	00	00	00	00	00	00	00	00	00	01	10	28	01	11	00	01	01	00	00	00	00	10	01	01
29	00	00	00	00	00	00	00	00	00	00	00	10	29	01	00	00	00	01	00	10	00	00	00	01	11
30	00	00	00	00	00	00	00	00	00	00	00	00	30	10	00	00	00	11	01	00	00	01	00	01	11
31	00	00	00	00	00	00	00	00	00	00	00	01	31	01	00	00	00	11	00	01	00	00	00	00	11

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1980)
 ESTACION: PACULLO

CODIGO : 01202050 3

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1981)

DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	01	00	01	11	11	10	00	00	11	00	10	1	00	00	10	11	10	10	11	01	01	00	01	10
2	01	01	00	01	10	11	10	00	00	11	00	10	2	00	00	11	01	10	10	11	00	01	10	11	01
3	11	01	00	01	10	11	10	00	00	10	00	10	3	00	00	10	11	10	10	11	00	01	01	01	01
4	11	01	00	01	11	11	10	00	00	10	00	11	4	00	00	10	11	11	10	01	10	11	01	01	10
5	11	11	00	01	11	11	00	00	00	10	00	11	5	00	00	10	11	01	11	01	00	01	11	01	01
6	11	11	00	01	11	01	10	00	00	10	00	10	6	00	00	10	11	11	10	11	10	11	11	00	00
7	10	00	00	01	11	11	01	00	00	00	00	10	7	00	00	10	11	11	10	01	01	11	11	00	01
8	01	00	00	01	11	11	10	00	00	11	00	10	8	00	00	10	01	11	10	01	10	10	01	00	11
9	11	11	00	01	11	11	11	00	00	10	00	10	9	00	10	11	11	11	10	11	10	10	10	10	01
10	11	00	00	11	11	11	11	00	00	10	00	10	10	00	11	10	11	11	10	11	01	10	11	11	01
11	01	00	01	11	01	11	10	00	00	11	00	10	11	00	11	11	11	11	10	01	01	10	10	00	11
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13	00	11	01	11	10	11	10	00	00	11	00	10	13	00	10	11	10	10	10	10	01	10	00	00	11
14	00	01	00	11	10	11	10	00	00	11	00	10	14	00	11	11	10	10	10	10	00	10	10	01	10
15	00	11	01	11	10	11	10	00	00	11	00	11	15	00	11	11	10	10	11	10	10	11	10	01	10
16	11	01	00	00	11	11	10	00	00	10	00	00	16	00	10	11	00	10	00	10	11	01	11	11	10
17	01	01	01	00	11	11	10	00	00	10	00	10	17	00	11	10	11	10	10	10	10	01	11	01	10
18	01	01	01	10	11	11	10	00	00	10	00	10	18	00	01	11	11	10	11	10	01	11	11	11	00
19	01	11	11	10	11	11	10	00	00	00	00	10	19	00	01	11	10	10	11	10	01	11	10	01	01
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22	01	01	11	11	01	11	10	00	00	10	00	10	22	00	11	11	11	11	00	10	11	11	11	00	10
23	11	01	01	11	01	11	10	00	00	10	00	00	23	00	11	10	10	10	10	00	01	11	11	01	10
24	00	11	01	11	01	11	00	00	00	10	00	10	24	00	11	10	10	01	10	00	11	10	11	01	11
25	01	11	11	01	01	11	00	00	00	10	00	10	25	00	11	01	11	10	00	00	11	01	01	01	11
26	00	11	01	11	01	11	00	00	00	10	00	10	26	00	11	11	11	11	01	01	00	01	11	01	11
27	11	11	01	11	11	11	00	00	00	10	00	10	27	00	11	10	10	11	11	11	11	11	01	11	00
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29	11	11	11	00	11	11	00	00	00	10	00	00	29	00	00	11	10	10	11	10	01	10	11	11	10
30	00	00	01	11	11	11	00	00	00	10	00	00	30	00	00	11	10	10	11	00	01	00	11	10	11
31	00	00	01	00	11	00	00	00	00	10	00	00	31	00	00	11	00	10	00	01	11	00	11	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1982)
 ESTACION: PACOLLO

CDR160 : 01202050 3

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1983)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	10	11	10	01	10	11	01	10	10	00	11	11	1	00	10	11	00	00	01	11	01	10	10	10	11
2	10	11	10	10	01	11	01	10	00	01	11	01	2	00	11	11	10	00	01	01	00	00	10	01	11
3	10	00	11	11	10	10	11	10	10	10	11	00	3	10	11	11	00	00	01	01	00	00	00	00	01
4	10	11	10	01	10	10	10	11	10	10	10	10	4	00	10	11	01	00	01	00	00	01	00	00	11
5	01	11	10	11	11	10	10	10	11	11	10	10	5	00	10	00	00	00	01	00	00	11	00	00	11
6	11	11	10	11	11	00	00	01	10	10	10	10	6	00	10	10	01	00	01	01	00	11	10	00	11
7	11	11	10	11	11	01	10	10	11	10	10	10	7	00	10	10	00	00	01	10	00	00	00	10	01
8	10	10	10	10	11	10	11	11	01	10	11	10	8	01	10	10	00	00	00	11	11	10	00	11	01
9	00	10	11	11	10	10	01	11	10	11	11	10	9	10	10	10	00	00	00	11	00	10	00	01	10
10	01	11	10	11	01	10	10	10	00	00	10	10	10	01	11	10	00	11	01	11	10	11	10	01	01
11	11	11	11	11	00	10	11	10	01	00	10	10	11	00	10	10	00	11	01	01	10	10	10	01	10
12	11	10	01	11	01	10	10	00	10	10	01	10	12	00	01	10	00	10	01	11	01	10	10	01	01
13	10	10	11	11	10	10	10	10	00	00	11	10	13	00	10	00	00	10	01	01	00	11	10	01	00
14	10	11	10	10	11	01	11	01	00	11	10	10	14	00	10	10	01	00	01	01	00	11	10	01	00
15	11	10	10	10	11	01	10	01	10	10	11	10	15	00	10	10	00	01	01	01	10	11	10	11	01
16	11	10	11	10	11	01	00	11	10	11	10	10	16	01	11	10	11	11	01	01	01	11	10	11	00
17	11	10	10	10	11	11	10	00	10	11	10	10	17	00	01	10	11	01	01	01	00	10	11	11	00
18	11	01	10	10	01	11	11	00	10	11	10	10	18	00	11	10	00	01	01	00	01	11	00	11	00
19	11	11	10	11	11	11	01	00	10	11	11	10	19	00	01	10	10	00	01	00	00	00	00	11	00
20	11	11	10	10	11	10	11	00	10	10	10	10	20	00	01	10	11	00	01	00	00	10	00	11	00
21	11	11	11	10	11	11	11	10	10	11	10	11	21	00	11	10	01	00	01	01	00	11	00	01	00
22	11	01	01	11	11	10	01	10	10	10	10	10	22	00	10	10	11	00	00	00	00	10	00	01	00
23	11	11	01	11	11	10	11	10	11	10	11	00	23	01	11	10	00	00	01	00	00	10	01	01	00
24	11	10	11	11	11	10	11	10	11	10	10	00	24	00	10	10	00	00	01	00	10	11	01	00	00
25	11	10	10	10	10	10	11	10	11	10	10	00	25	01	10	10	01	01	11	01	11	10	11	01	00
26	11	10	10	11	10	10	11	01	11	01	10	00	26	01	10	10	01	10	01	01	10	00	01	01	00
27	10	11	10	11	00	10	00	11	00	11	10	10	27	01	10	10	00	00	11	01	10	11	11	01	01
28	10	10	10	10	10	11	11	10	00	01	11	00	28	01	10	10	00	00	11	01	10	10	10	00	00
29	11	00	11	10	11	00	00	10	00	01	10	10	29	00	00	11	00	10	11	01	00	10	11	00	00
30	11	00	11	10	01	01	01	10	00	11	01	10	30	10	00	10	00	01	11	01	00	10	10	00	10
31	01	00	01	00	01	00	01	10	00	11	00	01	31	01	00	10	00	11	00	01	00	00	10	00	10

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1984)
 ESTACION: PACDLLO

COPIBO : 01202050 3

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1985)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	10	11	00	10	11	10	10	10	01	11	11	00	1	00	00	10	00	00	00	00	00	00	00		
2	01	11	01	10	11	10	11	10	11	11	11	00	2	00	00	10	00	01	00	00	10	10	00	00	
3	11	11	00	10	11	11	10	10	10	11	11	00	3	10	00	10	00	01	00	00	10	11	00	00	
4	01	11	00	10	10	11	10	10	11	11	11	00	4	00	10	10	00	11	00	00	10	01	00	10	00
5	00	11	00	10	10	10	10	11	10	11	11	10	5	00	00	01	00	01	01	00	00	11	00	00	00
6	00	00	01	11	11	10	10	11	11	11	11	10	6	10	01	10	00	11	10	00	00	01	00	00	00
7	00	10	01	10	11	10	10	10	10	11	10	00	7	00	01	01	00	01	00	00	00	00	00	00	00
8	01	00	11	01	10	11	10	11	10	11	10	00	8	01	01	00	00	01	00	00	00	11	00	00	00
9	10	00	00	11	10	10	10	10	11	10	11	00	9	00	11	10	10	00	00	00	00	01	00	00	00
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11	01	00	00	01	10	11	10	10	00	10	10	00	11	10	11	10	00	00	00	00	00	00	10	00	00
12	11	00	11	00	10	10	10	10	11	11	10	10	12	10	00	10	00	10	00	10	01	00	00	00	00
13	11	00	00	00	10	10	10	00	11	10	10	11	13	10	00	00	00	00	00	00	10	00	00	00	00
14	00	00	00	10	10	10	10	00	10	00	10	00	14	01	00	10	00	00	00	00	00	00	00	00	00
15	00	00	10	10	10	00	10	10	10	00	10	00	15	00	00	01	10	00	00	10	00	00	00	00	00
16	00	00	10	10	10	10	10	10	11	01	10	01	16	00	00	00	01	00	00	01	00	00	00	00	00
17	01	00	10	10	10	00	11	11	11	10	11	00	17	00	00	00	01	00	11	01	10	01	00	00	00
18	01	00	10	10	11	10	11	10	11	00	00	01	18	00	00	01	00	00	00	10	10	01	10	00	00
19	11	00	11	10	11	10	01	10	10	10	11	00	19	11	01	10	10	00	00	11	10	01	00	10	10
20	10	00	01	10	11	10	10	10	10	01	11	01	20	00	01	00	00	00	00	00	10	01	10	00	00
21	00	00	01	10	11	10	10	11	10	01	11	00	21	00	00	00	00	00	00	01	11	00	00	00	00
22	00	00	01	10	11	11	10	11	11	11	11	10	22	10	00	00	00	00	00	01	00	00	00	00	10
23	00	01	00	00	11	11	00	10	11	11	00	10	23	00	00	00	00	00	00	00	10	00	00	10	00
24	01	01	10	00	10	10	10	10	11	01	10	00	24	00	00	01	00	10	00	00	00	00	00	00	00
25	01	01	10	00	10	10	10	10	11	11	10	11	25	00	10	01	11	10	00	00	00	00	00	00	00
26	10	00	10	00	10	10	00	10	11	11	10	01	26	10	00	01	11	00	11	00	00	00	00	00	00
27	00	00	10	10	10	10	00	10	11	11	10	00	27	10	10	00	11	01	00	01	00	00	00	00	00
28	00	00	00	00	10	01	10	10	11	11	10	10	28	00	10	00	10	00	00	00	10	01	00	00	01
29	00	00	00	10	10	10	10	10	11	11	11	10	29	01	00	00	01	01	00	00	00	00	00	00	00
30	10	00	10	10	10	10	10	10	11	11	11	11	30	01	00	00	00	00	00	00	00	00	00	00	00
31	11	00	11	00	10	00	10	00	00	11	00	01	31	01	00	00	00	10	00	11	00	00	00	00	10

{1 1} : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1986)
 ESTACION: PACDLLO

CODIGO : 01202050 3

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1987)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	01	00	01	00	10	00	00	00	00	00	00	1	01	00	01	01	00	00	00	01	00	00	00	
2	00	00	00	00	00	11	00	00	00	00	00	00	2	00	10	01	00	00	00	10	10	00	00	00	
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	01	01	10	00	00	00	00	01	
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	01	00	00	00	10	00	00	
5	00	00	00	00	00	00	00	00	00	00	00	00	5	10	00	00	00	00	01	10	00	10	01	00	
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	10	00	00	10	00	
7	10	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	10	00	
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9	01	00	00	01	00	00	00	00	00	00	00	00	9	00	00	10	00	00	11	00	01	00	10	00	
10	00	01	00	00	00	00	00	00	00	00	00	00	10	00	01	00	00	00	00	00	00	00	00	00	
11	00	00	00	00	01	00	00	01	00	00	00	00	11	00	00	00	00	00	01	00	00	10	00	01	
12	00	00	00	00	00	00	00	11	00	00	00	00	12	00	01	00	00	00	00	01	00	00	10	00	
13	00	00	00	00	00	00	00	01	00	00	00	00	13	00	00	00	01	00	00	11	00	01	10	00	
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00	00	
15	00	00	00	00	00	00	00	01	00	00	00	00	15	00	00	00	00	10	00	00	00	00	00	00	
16	00	00	01	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	01	00	00	00	00	00	
17	00	00	00	01	00	00	00	00	00	00	00	00	17	00	00	00	00	00	01	00	01	10	00	00	
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00	00	
19	00	00	00	00	10	00	00	00	00	00	00	00	19	00	00	00	00	10	01	00	10	00	01	00	
20	00	00	00	00	00	00	10	00	00	00	00	00	20	00	00	00	00	00	00	00	01	00	00	00	
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	01	00	00	11	10	00	
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24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	10	00	00	00	10	10	00	10	00	00	
25	00	00	00	10	00	00	00	00	00	01	00	00	25	00	00	00	00	10	00	00	00	00	00	00	
26	10	00	00	00	00	00	00	10	00	00	00	00	26	00	00	00	00	00	01	00	00	00	00	00	
27	00	10	00	00	00	00	00	00	00	01	00	00	27	00	00	00	00	00	00	01	00	10	00	00	
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29	00	00	00	00	00	01	00	00	00	00	00	00	29	10	00	00	00	00	00	00	00	00	00	00	
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	01	00	00	10	00	
31	01	00	00	00	00	00	01	00	00	01	00	00	31	00	00	00	00	01	00	00	00	00	01	00	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1988)
 ESTACION: PACULLO

CODIGO : 01202050 3

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1989)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	10	00	00	00	10	10	00	00	10	1	00	00	00	00	11	00	00	00	00	00	01	
2	00	00	01	00	00	00	00	00	01	00	00	10	2	00	00	00	00	10	00	00	00	00	10	00	
3	00	00	01	10	01	00	00	00	01	00	01	10	3	11	00	00	00	11	00	00	00	00	00	00	
4	01	00	01	00	00	00	00	00	00	00	01	00	4	00	00	00	00	10	00	00	00	00	00	00	
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6	00	00	00	00	00	10	00	00	00	00	00	00	6	10	00	00	01	00	00	00	00	00	00	00	
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9	00	00	00	00	00	00	00	00	00	00	01	00	9	00	10	10	01	01	00	01	00	00	00	00	
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11	00	00	00	01	00	00	00	00	01	00	00	00	11	00	01	00	00	00	01	00	00	00	00	00	
12	00	00	00	10	00	00	10	00	00	00	01	00	12	00	00	00	00	00	00	00	00	00	00	01	
13	00	00	00	01	00	01	00	10	01	00	00	01	13	00	00	00	00	00	00	00	00	00	00	01	
14	00	00	00	00	00	10	10	00	00	00	00	10	14	00	10	00	10	00	00	00	00	00	00	00	
15	00	00	00	10	00	00	00	00	00	00	00	00	15	00	10	00	10	00	00	01	00	00	00	00	
16	00	00	00	10	00	00	00	00	00	00	00	10	16	00	00	00	00	10	00	01	00	00	00	00	
17	00	11	00	10	00	00	00	00	00	00	00	01	17	00	00	00	01	00	00	00	00	00	00	00	
18	00	00	00	00	00	00	01	00	00	00	00	00	18	01	00	00	11	00	00	00	00	00	01	00	
19	00	00	00	00	00	00	00	00	10	00	00	10	19	00	00	00	00	01	00	00	00	00	01	00	
20	00	00	00	00	00	00	00	00	01	10	00	00	20	00	00	00	00	00	00	00	00	00	00	00	
21	00	00	00	00	00	00	00	01	00	00	00	01	21	00	01	00	00	00	00	00	00	00	00	00	
22	00	10	00	00	00	00	00	00	00	00	00	00	22	10	00	01	01	00	01	00	10	01	00	00	
23	00	00	00	00	11	00	00	00	01	00	00	00	23	00	00	00	00	00	00	10	00	10	00	00	
24	00	00	00	00	01	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00	00	
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	01	11	00	00	00	00	00	01	00	
26	00	00	00	00	01	00	00	00	00	00	10	00	26	00	00	00	00	00	00	00	00	00	00	00	
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	10	00	11	00	00	00	00	00	01	00	
28	00	00	00	00	00	00	01	00	00	00	00	00	28	00	00	01	10	00	00	01	00	00	00	01	
29	00	00	00	00	00	10	00	10	00	00	00	00	29	00	00	00	10	10	00	01	00	00	00	00	
30	00	00	01	00	10	00	00	00	00	00	00	00	30	00	00	00	01	00	00	00	00	00	01	00	
31	00	00	00	00	01	00	00	10	00	00	00	00	31	01	00	00	00	11	00	00	01	00	10	00	

{1 1} : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.6 Estación Putre

3.6.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur $18^{\circ} 12'$ y Longitud Oeste $69^{\circ} 35'$ a una altura de 3530 msnm.

Posee estadística de lecturas directas a partir de 01/02/1977 y registro termográficos desde 19/01/1976.

3.6.2 Información existente

La tabla 14 muestra la información existente de la estación de lecturas directas, la que totaliza 131 meses (hasta diciembre de 1988). La tabla 15 muestra la información existente de termogramas la que totaliza 164 meses.

3.6.3 Información traducida

En esta estación existe un periodo de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero 1986 a Diciembre 1989, a excepción de los meses Agosto y Septiembre de 1987 (46 meses) y registros termográficos desde Enero de 1976 a Noviembre de 1984, con excepción de Agosto y Septiembre de 1980, Noviembre de 1980 y Enero de 1981 (103 meses). Por lo tanto la traducción por parte del consultor abarca 97 meses de lecturas directas y 61 meses de registros termográficos.

3.6.4 Validación

Se ha efectuado una entre las lecturas del hidrotermografo y las lecturas directas en el periodo que les es común, usando el periodo total de información existente.

Los factores de corrección aplicados a los termogramas se muestran en la tabla 16.

Se incluye un listado de los promedios mensuales y desviaciones estándar para las lecturas directas y termográficas en todo el periodo.

Después de aplicados los factores de corrección mediante un proceso computacional se han descartado todos los valores de Lecturas directas máximas y mínimas fuera del rango ± 1.9 . Se incluye un listado con el detalle de los valores eliminados.

ESTACION PUTRE

TABLA 14

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
1/2/77	27/2/77	1/2/77	27/2/77
1/3/77	27/3/77	1/3/77	27/3/77
1/10/77	27/7/80	1/10/77	28/7/80
1/10/80	31/10/80	1/10/80	31/10/80
1/12/80	31/12/80	1/12/80	31/12/80
1/2/81	37/7/87	1/2/81	31/7/87
19/10/87	31/12/88	19/10/87	31/12/88

ESTACION PUTRE

TABLA 15

TERMOGRAMAS

DESDE	HASTA
19/1/76	28/2/76
1/3/76	1/10/76
4/10/76	21/8/78
28/8/78	14/4/80
15/4/80	28/7/80
29/9/80	27/10/80
1/12/80	29/12/80
2/2/81	6/7/87
13/7/87	3/8/87
4/8/87	10/8/87
12/10/87	1/1/90

TABLA 16

FACTORES DE CORRECCION

INICIO	TERMINO	FC
14 04 80	21 04 80	-1.0
28 12 81	04 01 82	+3.0
04 01 82	18 01 82	+2.0
18 01 82	01 02 82	+3.0
13 06 83	21 06 83	-1.0
26 11 84	10 12 84	+2.0
10 12 84	17 12 84	+1.0
01 01 85	07 01 85	+2.0
21 01 85	11 03 85	+2.0
01 04 85	08 04 85	+2.0
22 04 85	29 04 85	+4.0
01 07 85	08 07 85	-1.0
05 08 85	12 08 85	-1.0
19 08 85	26 08 85	-1.0
23 09 85	30 09 85	-1.0
30 09 85	14 10 85	-3.0
21 10 85	28 10 85	+1.0
11 11 85	25 11 85	-1.0
02 12 85	09 12 85	-1.0
09 12 85	16 12 85	-2.0
20 01 86	27 01 86	-1.0
03 02 86	10 02 86	-1.0
17 03 86	24 03 86	-1.0
24 03 86	31 03 86	-2.0
21 04 86	28 04 86	-2.0
29 09 86	20 10 86	-1.0
10 11 86	17 11 86	-2.0
01 12 86	08 12 86	-1.0
08 12 86	15 12 86	-2.0
15 12 86	22 12 86	-1.0
22 12 86	05 01 87	-2.0
05 01 87	12 01 87	-1.0
12 01 87	20 01 87	-2.0
27 01 87	02 02 87	-1.0
02 02 87	02 03 87	-2.0
02 03 87	09 03 87	-1.0
16 03 87	13 04 87	-2.0
13 04 87	20 04 87	-1.0
25 05 87	01 06 87	-2.0
06 07 87	20 07 87	-1.0
26 10 87	09 11 87	-1.0
23 11 87	30 11 87	-1.0
14 12 87	21 12 87	-1.0
21 12 87	28 12 87	-2.0
22 02 88	29 02 88	-2.0
25 04 88	02 05 88	-2.0

TABLA 16

FACTORES DE CORRECCION

INICIO	TERMINO	FC
09 05 88	16 05 88	-2.0
25 07 88	01 08 88	+1.0
08 08 88	29 08 88	-1.0
29 08 88	05 09 88	-3.0
03 09 88	12 09 88	-4.0
12 09 88	03 10 88	-2.0
17 10 88	31 10 88	-2.0
31 10 88	07 11 88	-1.0
07 11 88	21 11 88	-2.0
28 11 88	19 12 88	-2.0
19 12 88	26 12 88	-1.0
13 02 89	27 02 89	-1.0
27 02 89	06 03 89	-3.0
06 03 89	20 03 89	-1.0
03 04 89	17 04 89	-1.0
17 04 89	24 04 89	-2.0
24 04 89	01 05 89	-3.0
01 05 89	08 05 89	-1.0
08 05 89	15 05 89	-2.0
15 05 89	22 05 89	-3.0
03 06 89	19 06 89	-2.0
19 06 89	03 07 89	-1.0
10 07 89	17 07 89	-1.0
14 08 89	21 08 89	-2.0
28 08 89	04 09 89	-1.0
04 09 89	11 09 89	-2.0
11 09 89	18 09 89	-1.0
25 09 89	09 10 89	-1.0
16 10 89	23 10 89	-1.0
30 10 89	06 11 89	-1.0
13 11 89	04 12 89	-1.0
04 12 89	18 12 89	-2.0
23 12 89	30 12 89	-1.0

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : PUTRE

CODIGO: 01202051

1

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
77	1	0.00	0	0.000	0.00	0	0.000
78	1	15.32	23	2.013	4.69	21	1.971
79	1	14.89	19	2.456	4.04	12	1.461
80	1	16.99	31	1.290	3.85	11	1.055
81	1	0.00	0	0.000	0.00	0	0.000
82	1	14.64	5	0.792	0.00	0	0.000
83	1	18.50	18	1.780	4.98	9	1.088
84	1	12.50	28	1.810	3.56	27	1.074
85	1	14.56	30	1.142	2.17	23	1.901
86	1	14.33	27	1.089	4.62	27	0.988
87	1	14.94	26	1.743	5.69	15	0.555
88	1	14.73	29	2.387	6.29	30	0.788
89	1	14.57	30	1.262	5.03	26	0.706
77	2	12.66	27	4.438	2.76	26	2.040
78	2	18.26	20	1.211	5.93	21	1.428
79	2	16.82	21	1.162	3.86	12	1.027
80	2	16.38	27	1.454	3.54	8	1.655
81	2	14.95	23	2.299	5.24	27	1.220
82	2	14.93	12	1.297	3.54	7	1.176
83	2	18.33	18	1.332	4.42	9	2.171
84	2	13.29	28	1.667	4.68	23	1.189
85	2	14.04	27	1.742	4.89	28	1.396
86	2	12.69	26	1.690	3.60	26	1.729
87	2	17.16	26	1.506	6.55	16	0.859
88	2	16.32	28	1.301	5.48	20	1.082
89	2	12.78	25	2.005	5.00	23	1.005
77	3	15.08	24	2.962	3.34	26	2.390
78	3	16.99	19	1.447	1.19	11	1.839
79	3	15.53	21	2.245	4.66	16	1.336
80	3	16.97	14	1.474	5.70	13	1.545
81	3	15.93	29	1.851	4.00	24	1.965
82	3	15.44	21	1.363	4.54	9	0.856
83	3	18.00	7	1.166	4.90	10	0.330
84	3	14.98	26	0.922	4.01	20	1.277
85	3	15.19	22	1.504	3.69	24	1.728
86	3	13.72	28	3.032	4.53	22	1.494
87	3	15.91	30	1.656	5.46	16	1.889
88	3	14.55	31	2.893	5.73	29	1.220
89	3	13.76	26	1.650	4.30	21	1.517
77	4	0.00	0	0.000	0.00	0	0.000
78	4	17.29	20	1.092	0.59	13	0.214
79	4	18.01	22	1.238	4.27	14	1.889
80	4	16.31	9	1.012	2.02	6	1.261
81	4	17.91	22	0.885	2.24	16	1.117

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : FUTRE CODIGO: 01202051 1

ano	mes	FROM(MAX)	N DIAS	D.ESTANDAR	FROM(MIN)	N DIAS	D.ESTANDARD
82	4	16.34	21	2.077	3.10	10	1.927
83	4	17.85	12	0.724	3.94	10	0.687
84	4	16.43	23	1.675	3.26	24	1.531
85	4	16.30	25	1.834	1.63	8	1.093
86	4	16.20	26	1.030	4.84	22	2.214
87	4	16.80	26	1.362	3.54	14	2.263
88	4	15.62	28	1.547	5.30	25	2.239
89	4	15.38	29	1.693	5.06	16	1.364
77	5	0.00	0	0.000	0.00	0	0.000
78	5	17.18	21	2.298	0.28	18	0.120
79	5	16.78	24	1.253	2.76	7	2.039
80	5	16.51	18	1.691	5.50	1	0.000
81	5	17.34	20	1.429	2.98	24	0.995
82	5	15.30	18	1.468	2.82	9	1.277
83	5	16.73	22	1.486	3.08	10	1.855
84	5	16.44	20	1.763	3.19	20	1.388
85	5	17.13	25	1.098	3.55	15	2.106
86	5	15.05	30	1.414	0.00	0	0.000
87	5	15.72	26	1.161	1.54	23	1.387
88	5	15.91	30	0.932	3.67	14	1.795
89	5	15.88	31	1.667	4.69	11	1.224
77	6	0.00	0	0.000	0.00	0	0.000
78	6	15.58	22	1.234	0.20	24	1.327
79	6	16.93	14	0.793	2.74	7	1.686
80	6	17.87	12	1.470	3.00	4	0.816
81	6	15.18	21	0.753	1.85	13	1.297
82	6	14.92	20	1.506	2.48	5	1.993
83	6	14.71	24	0.753	0.14	7	1.153
84	6	14.48	21	1.881	2.23	26	1.360
85	6	15.47	28	1.692	3.52	26	1.439
86	6	15.96	28	1.792	0.00	0	0.000
87	6	15.74	23	1.354	1.22	21	1.258
88	6	15.40	21	0.999	3.31	12	1.033
89	6	14.67	29	1.312	3.51	7	0.813
77	7	0.00	0	0.000	0.00	0	0.000
78	7	15.78	12	1.366	-0.64	14	2.304
79	7	15.68	17	1.411	3.20	8	1.555
80	7	13.08	24	4.483	-1.51	26	2.508
81	7	15.10	23	1.280	-1.00	9	2.046
82	7	15.25	22	1.138	2.48	18	1.359
83	7	15.08	19	1.051	1.78	13	1.406
84	7	15.10	26	1.246	0.90	24	1.501
85	7	14.50	28	1.509	1.03	14	1.823
86	7	14.58	28	1.271	2.44	5	2.056

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : PUTRE

CODIGO: 01202051

1

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
87	7	15.04	27	2.244	-1.10	27	2.201
88	7	14.91	31	1.509	2.96	5	2.309
89	7	14.36	29	1.227	3.76	5	1.055
77	8	0.00	0	0.000	0.00	0	0.000
78	8	16.59	25	0.683	3.86	15	0.537
79	8	16.62	24	0.834	2.73	3	1.365
80	8	0.00	0	0.000	0.00	0	0.000
81	8	14.99	23	1.465	-0.60	12	1.959
82	8	16.38	11	0.767	2.57	3	0.862
83	8	16.08	16	0.935	2.58	25	0.990
84	8	15.14	17	1.562	2.04	10	1.015
85	8	15.22	31	1.327	2.99	22	1.836
86	8	15.08	30	1.707	3.31	18	1.693
87	8	0.00	0	0.000	0.00	0	0.000
88	8	16.84	28	1.391	4.32	10	1.614
89	8	15.42	29	1.157	3.65	11	1.525
77	9	0.00	0	0.000	0.00	0	0.000
78	9	17.00	25	0.552	3.92	5	1.130
79	9	16.85	23	0.995	2.28	4	1.898
80	9	0.00	0	0.000	0.00	0	0.000
81	9	16.45	22	1.582	0.57	10	1.804
82	9	16.28	21	1.164	3.69	10	0.874
83	9	15.83	18	2.736	2.51	23	1.739
84	9	15.69	21	0.967	1.09	7	0.986
85	9	15.64	28	1.505	4.17	23	1.061
86	9	16.16	30	1.577	2.57	23	1.711
87	9	0.00	0	0.000	0.00	0	0.000
88	9	15.42	30	2.121	4.24	5	2.011
89	9	15.66	29	1.140	2.70	11	1.335
77	10	18.01	26	1.286	4.59	7	2.708
78	10	17.98	12	0.582	2.81	7	1.900
79	10	17.50	17	0.812	4.26	10	2.544
80	10	18.60	27	1.429	3.74	12	1.105
81	10	17.63	22	0.621	2.33	12	1.041
82	10	16.12	18	0.956	3.98	14	1.451
83	10	17.29	15	1.002	3.37	24	1.643
84	10	16.40	21	1.374	3.53	6	1.479
85	10	15.91	28	1.298	2.59	25	1.059
86	10	15.68	29	1.637	2.36	23	2.004
87	10	15.33	11	0.573	2.65	4	1.248
88	10	16.37	30	1.225	4.69	10	2.082
89	10	16.54	29	1.220	4.85	10	1.673
77	11	17.04	27	1.018	4.15	8	0.800

PRÓMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : PUTRE

CODIGO: 01202051 1

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
78	11	18.01	20	0.503	2.53	16	0.915
79	11	17.42	26	0.706	5.30	2	0.283
80	11	0.00	0	0.000	0.00	0	0.000
81	11	16.58	6	1.132	-2.88	9	1.926
82	11	17.14	20	1.401	4.73	22	1.389
83	11	17.04	26	1.203	2.40	29	1.650
84	11	14.89	15	1.193	4.80	5	1.068
85	11	14.78	29	1.529	2.97	15	1.385
86	11	16.57	29	1.235	4.64	24	1.121
87	11	16.62	30	1.036	5.98	14	0.918
88	11	15.97	29	1.356	4.95	6	1.290
89	11	16.04	29	1.055	4.09	7	1.963
77	12	17.48	26	1.649	5.24	12	1.009
78	12	17.75	15	0.806	3.35	8	1.492
79	12	17.67	17	2.054	2.58	10	1.777
80	12	17.53	23	1.479	3.89	10	1.257
81	12	17.87	6	1.760	2.66	5	0.230
82	12	17.51	15	0.785	4.05	10	0.448
83	12	16.53	24	0.880	3.18	16	1.395
84	12	16.64	28	1.561	3.24	25	1.046
85	12	14.88	26	1.866	4.35	22	0.905
86	12	15.49	28	1.141	5.65	20	1.291
87	12	16.55	30	1.503	5.86	12	1.027
88	12	14.05	30	1.682	3.82	5	1.530
89	12	15.47	27	1.114	3.81	9	1.415

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : PUTRE

CODIGO: 01202051

1

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
76	1	11.04	13	3.067	4.20	12	0.814
77	1	16.59	30	2.176	1.94	31	1.756
78	1	15.91	31	2.429	4.00	29	2.461
79	1	13.15	31	2.454	2.10	31	1.508
80	1	16.42	25	1.387	1.67	25	2.451
81	1	0.00	0	0.000	0.00	0	0.000
82	1	14.53	31	2.181	1.59	31	2.381
83	1	16.68	31	1.568	2.71	31	1.606
84	1	12.68	31	2.116	4.44	31	1.383
85	1	14.18	30	2.280	1.36	31	2.473
86	1	13.67	30	1.910	3.75	31	1.013
87	1	14.46	31	2.245	4.60	30	1.233
88	1	15.70	31	2.589	5.16	31	1.139
89	1	15.41	31	1.429	3.45	31	1.484
76	2	11.43	28	1.910	2.78	28	1.496
77	2	13.24	28	4.769	2.34	28	2.152
78	2	19.03	28	1.515	5.24	27	2.278
79	2	15.70	28	1.386	1.25	27	1.731
80	2	15.65	28	1.511	1.48	25	1.663
81	2	14.30	27	3.251	4.45	25	1.205
82	2	12.48	28	2.807	1.17	27	1.647
83	2	16.31	27	1.835	3.32	28	2.122
84	2	13.68	28	1.915	5.76	28	1.628
85	2	14.38	28	2.185	4.57	28	1.508
86	2	12.70	27	2.316	2.79	27	1.962
87	2	16.99	28	1.860	4.17	25	1.991
88	2	17.06	28	1.523	3.70	28	1.292
89	2	12.64	27	2.197	3.34	28	1.687
76	3	13.54	31	1.973	2.85	30	1.659
77	3	15.77	31	2.688	2.52	31	2.514
78	3	16.53	31	1.649	2.25	31	2.700
79	3	14.12	26	2.809	2.60	25	1.696
80	3	15.67	29	1.934	2.34	24	2.260
81	3	15.66	30	2.133	2.66	29	2.058
82	3	13.90	31	1.955	2.47	31	1.663
83	3	14.87	31	1.623	2.56	31	1.537
84	3	14.81	31	1.969	5.23	31	1.665
85	3	15.10	30	2.151	3.64	30	2.055
86	3	13.40	31	3.820	3.57	31	1.571
87	3	16.16	31	1.795	3.48	31	1.954
88	3	14.86	30	3.323	4.18	29	1.787
89	3	14.14	31	1.685	3.04	31	1.400
76	4	16.59	30	1.906	2.73	30	2.157
77	4	17.48	29	2.594	1.43	28	2.809

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : PUTRE

CODIGO: 01202051 1

ano	mes	FROM(MAX)	N DIAS	D.ESTANDAR	FROM(MIN)	N DIAS	D.ESTANDAR
78	4	16.86	30	1.757	1.87	30	2.905
79	4	15.82	23	2.023	0.68	22	1.748
80	4	16.10	28	2.330	1.01	27	2.864
81	4	16.95	30	1.599	2.45	30	1.567
82	4	15.00	30	2.410	2.22	30	2.993
83	4	15.77	30	1.569	2.27	30	1.438
84	4	17.52	30	1.994	4.26	30	2.068
85	4	15.78	30	2.005	3.74	30	2.172
86	4	16.51	30	1.798	3.36	30	2.054
87	4	16.32	30	1.739	2.39	30	2.314
88	4	15.98	30	1.815	3.84	30	2.572
89	4	15.84	30	1.757	2.75	30	2.450
76	5	14.87	31	1.579	1.01	31	1.513
77	5	16.08	31	2.704	-0.11	31	2.859
78	5	16.02	31	3.215	0.86	31	1.969
79	5	13.96	31	1.464	0.70	31	1.807
80	5	15.95	31	1.555	0.03	30	2.000
81	5	17.63	31	1.893	2.65	31	1.629
82	5	13.42	31	2.310	-0.42	26	2.489
83	5	15.71	31	1.597	0.67	31	2.181
84	5	17.69	30	1.892	4.10	31	2.030
85	5	16.88	31	1.764	3.79	31	1.731
86	5	14.79	31	1.886	0.11	31	2.045
87	5	15.23	31	2.000	0.49	31	1.862
88	5	15.84	30	1.202	2.34	30	1.842
89	5	16.33	31	1.666	1.73	30	1.919
76	6	14.46	30	2.235	1.53	30	1.494
77	6	15.19	30	1.768	-1.12	30	1.583
78	6	15.06	30	1.890	-0.35	30	1.678
79	6	13.92	30	2.963	-0.09	30	2.332
80	6	16.33	30	1.872	-0.09	30	2.159
81	6	16.02	30	1.361	0.65	30	1.439
82	6	12.83	30	2.214	-0.78	30	2.087
83	6	14.69	30	1.499	-0.48	30	1.456
84	6	14.80	30	3.566	2.05	30	2.185
85	6	15.86	30	1.878	2.47	30	1.801
86	6	15.66	29	2.599	1.27	29	2.505
87	6	15.13	30	1.764	0.58	30	1.695
88	6	14.84	30	1.644	0.42	29	2.178
89	6	14.78	29	1.246	0.15	30	1.932
76	7	14.88	31	2.243	1.45	31	1.346
77	7	14.98	31	1.410	-1.50	30	1.283
78	7	14.57	31	1.753	-1.01	31	2.890
79	7	13.86	31	2.105	-0.90	31	2.667
80	7	13.90	27	3.213	-1.56	27	2.535
81	7	16.18	31	1.833	0.50	31	1.765

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : PUTIFE

COO16U; 01202051

1

ano	mes	FROM(MAX)	N DIAS	D.ESTANDAR	FROM(MIN)	N DIAS	D.ESTANDARD
82	7	14.84	31	1.485	1.44	31	1.459
83	7	15.69	31	1.689	0.72	31	2.600
84	7	14.90	31	1.716	0.33	31	1.860
85	7	14.31	31	1.689	-0.32	31	1.979
86	7	14.42	31	1.782	-0.56	31	1.939
87	7	13.20	24	3.915	-1.10	24	1.923
88	7	14.67	31	1.651	0.19	31	2.323
89	7	15.02	31	1.832	-0.44	31	2.122
76	8	14.47	31	2.065	0.85	31	2.030
77	8	15.28	31	2.326	-2.29	31	2.288
78	8	16.15	24	1.442	0.88	23	1.912
79	8	15.45	31	1.567	-0.03	31	1.172
80	8	0.00	0	0.000	0.00	0	0.000
81	8	13.86	31	3.216	-0.24	31	2.152
82	8	13.77	31	1.627	0.48	31	1.429
83	8	17.84	30	1.760	3.43	29	1.696
84	8	13.42	31	2.030	-1.06	31	1.994
85	8	15.72	31	1.458	1.72	31	2.011
86	8	14.83	30	3.471	1.03	30	2.424
87	8	18.03	8	3.278	2.68	10	2.602
88	8	16.92	31	2.117	1.45	31	2.250
89	8	16.13	31	1.377	1.00	31	1.780
76	9	13.73	30	2.939	1.36	30	1.730
77	9	17.19	30	2.022	-0.00	30	1.902
78	9	15.79	29	1.906	-0.10	28	1.834
79	9	15.44	30	1.361	-0.46	30	1.474
80	9	0.00	0	0.000	0.00	0	0.000
81	9	14.95	30	2.440	-0.08	30	1.899
82	9	15.28	29	1.380	2.15	30	1.161
83	9	17.13	29	2.839	3.07	30	2.168
84	9	14.41	30	1.322	-0.98	30	1.509
85	9	15.92	29	2.173	2.35	30	1.646
86	9	16.50	30	1.610	1.80	30	1.373
87	9	0.00	0	0.000	0.00	0	0.000
88	9	15.79	30	2.444	1.58	30	2.091
89	9	16.48	30	1.309	0.65	30	1.987
76	10	17.49	27	1.018	-0.28	26	1.618
77	10	18.04	31	1.394	1.80	30	2.744
78	10	15.49	31	2.206	0.33	31	1.950
79	10	16.28	31	1.682	1.48	29	2.314
80	10	18.03	26	2.007	2.06	26	2.051
81	10	16.26	31	1.264	0.86	31	1.810
82	10	14.87	31	1.949	2.24	31	1.879
83	10	18.68	30	1.702	3.99	31	2.045

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : PUTRE

CODIGO: 01202051

1

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
84	10	14.38	30	2.454	2.03	31	1.742
85	10	16.07	31	1.821	1.54	31	1.993
86	10	16.16	31	1.716	1.39	31	2.265
87	10	14.83	20	2.672	0.89	19	1.361
88	10	16.75	31	1.268	1.76	31	2.440
89	10	16.75	31	1.753	1.99	31	2.197
76	11	17.41	30	1.852	0.06	30	2.440
77	11	16.29	30	1.192	2.05	30	1.458
78	11	16.52	30	1.802	2.04	30	1.728
79	11	16.47	30	1.074	0.85	30	1.436
80	11	0.00	0	0.000	0.00	0	0.000
81	11	13.57	30	2.025	-1.27	30	1.818
82	11	16.53	30	1.857	3.81	30	1.889
83	11	18.32	30	1.472	2.74	30	2.005
84	11	12.84	30	3.483	0.14	30	2.340
85	11	14.97	30	2.058	2.48	30	2.455
86	11	17.21	30	1.493	3.81	30	1.833
87	11	17.05	30	1.434	3.79	30	1.503
88	11	16.17	30	1.573	1.81	30	1.810
89	11	16.46	30	1.292	1.71	30	2.107
76	12	17.59	31	1.812	2.48	31	2.090
77	12	17.13	31	1.591	3.19	31	1.540
78	12	15.80	31	1.252	1.18	31	2.050
79	12	14.30	31	4.039	1.65	31	2.392
80	12	16.48	28	2.201	0.54	27	2.081
81	12	14.01	31	2.130	1.17	30	2.339
82	12	16.19	31	2.048	2.32	31	2.212
83	12	17.48	31	1.509	4.73	31	1.869
84	12	16.40	31	2.030	2.53	31	1.574
85	12	14.70	31	3.161	3.29	31	1.801
86	12	15.53	31	1.517	3.96	31	1.704
87	12	16.68	31	1.819	2.99	31	2.024
88	12	13.82	31	1.650	1.32	31	1.518
89	12	15.43	28	1.413	1.21	28	1.675

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1976)
 ESTACION: PUTRE

CDD160 : 01202051 1

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1977)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00
2	00	00	00	00	00	00	00	00	00	00	00	00
3	00	00	00	00	00	00	00	00	00	00	00	00
4	00	00	00	00	00	00	00	00	00	00	00	00
5	00	00	00	00	00	00	00	00	00	00	00	00
6	00	00	00	00	00	00	00	00	00	00	00	00
7	00	00	00	00	00	00	00	00	00	00	00	00
8	00	00	00	00	00	00	00	00	00	00	00	00
9	00	00	00	00	00	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00	00	00	00	00	00
11	00	00	00	00	00	00	00	00	00	00	00	00
12	00	00	00	00	00	00	00	00	00	00	00	00
13	00	00	00	00	00	00	00	00	00	00	00	00
14	00	00	00	00	00	00	00	00	00	00	00	00
15	00	00	00	00	00	00	00	00	00	00	00	00
16	00	00	00	00	00	00	00	00	00	00	00	00
17	00	00	00	00	00	00	00	00	00	00	00	00
18	00	00	00	00	00	00	00	00	00	00	00	00
19	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00
21	00	00	00	00	00	00	00	00	00	00	00	00
22	00	00	00	00	00	00	00	00	00	00	00	00
23	00	00	00	00	00	00	00	00	00	00	00	00
24	00	00	00	00	00	00	00	00	00	00	00	00
25	00	00	00	00	00	00	00	00	00	00	00	00
26	00	00	00	00	00	00	00	00	00	00	00	00
27	00	00	00	00	00	00	00	00	00	00	00	00
28	00	00	00	00	00	00	00	00	00	00	00	00
29	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00
31	00	00	00	00	00	00	00	00	00	00	00	00

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	01	01
2	00	00	00	00	00	00	00	00	00	00	00	00
3	00	00	00	00	00	00	00	00	00	00	11	00
4	00	01	00	00	00	00	00	00	00	01	00	01
5	00	00	00	00	00	00	00	00	00	00	01	00
6	00	00	00	00	00	00	00	00	00	00	01	00
7	00	00	01	00	00	00	00	00	00	00	11	00
8	00	00	00	00	00	00	00	00	00	00	01	01
9	00	00	00	00	00	00	00	00	00	00	01	01
10	00	00	00	00	00	00	00	00	00	00	01	01
11	00	00	00	00	00	00	00	00	00	00	01	01
12	00	00	00	00	00	00	00	00	00	00	01	11
13	00	00	00	00	00	00	00	00	00	00	11	01
14	00	00	10	00	00	00	00	00	00	00	11	00
15	00	00	00	00	00	00	00	00	00	00	11	01
16	00	00	00	00	00	00	00	00	00	00	01	00
17	00	00	00	00	00	00	00	00	00	00	01	01
18	00	00	00	00	00	00	00	00	00	00	00	11
19	00	00	00	00	00	00	00	00	00	00	00	01
20	00	00	00	00	00	00	00	00	00	00	00	01
21	00	00	10	00	00	00	00	00	00	00	01	01
22	00	00	00	00	00	00	00	00	00	00	00	01
23	00	00	10	00	00	00	00	00	00	00	01	01
24	00	00	00	00	00	00	00	00	00	00	01	11
25	00	00	00	00	00	00	00	00	00	00	01	01
26	00	00	00	00	00	00	00	00	00	00	01	01
27	00	00	00	00	00	00	00	00	00	00	01	01
28	00	00	00	00	00	00	00	00	00	00	01	01
29	00	00	00	00	00	00	00	00	00	00	01	01
30	00	00	00	00	00	00	00	00	00	00	01	01
31	00	00	00	00	00	00	00	00	00	00	01	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1978)

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1979)

ESTACION: PUTRE

CODIGO : 01202051

1

DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	10	11	11	11	01	00	01	01	10	10	1	11	01	10	00	01	00	01	01	01	01	11	
2	00	00	11	11	01	11	01	00	11	11	10	11	2	01	01	11	11	11	01	11	01	00	01	01	
3	01	01	10	10	10	01	11	00	00	01	10	00	3	01	11	10	01	11	10	01	01	01	01	01	
4	00	00	00	00	01	00	01	00	00	10	01	11	4	01	00	00	11	11	11	01	01	11	11	01	
5	00	10	00	00	00	00	11	01	01	01	11	01	5	00	00	00	01	01	11	01	01	11	00	01	
6	00	00	01	01	00	00	11	01	01	11	01	11	6	10	01	00	01	01	11	11	01	11	00	01	
7	10	00	10	01	11	00	11	11	01	10	01	11	7	10	11	00	00	00	11	00	01	01	10	01	
8	01	00	00	01	01	00	10	01	01	11	00	11	8	10	00	01	00	00	01	00	01	01	00	01	
9	10	01	11	01	01	00	11	01	01	11	00	11	9	00	11	01	00	01	01	00	01	01	01	01	
10	01	01	01	01	01	10	10	00	01	11	01	11	10	00	01	00	00	01	01	00	00	01	00	01	
11	00	01	01	01	00	10	10	01	01	11	11	11	11	00	00	00	00	01	11	01	01	11	11	00	
12	00	10	10	01	00	10	11	01	01	11	01	01	12	11	00	00	00	01	11	11	01	11	11	01	
13	00	00	00	01	00	10	11	11	11	11	01	00	13	01	01	11	00	00	01	11	11	00	11	01	
14	00	00	00	01	00	10	11	11	01	11	00	11	14	01	01	01	00	01	01	11	11	01	11	01	
15	01	10	10	11	00	00	11	00	01	11	01	00	15	00	01	11	00	01	10	11	01	01	10	00	
16	00	10	01	11	00	10	11	00	01	11	01	01	16	11	00	01	10	01	11	01	01	01	11	01	
17	01	00	01	10	00	01	01	11	01	11	00	11	17	11	01	00	00	01	11	11	01	11	00	01	
18	01	00	00	01	00	01	01	01	00	11	00	11	18	01	01	01	01	01	11	11	01	01	11	01	
19	01	01	11	01	01	01	11	01	11	01	00	01	19	01	10	10	01	01	11	01	01	01	11	01	
20	10	00	01	00	10	01	11	01	01	11	10	01	20	11	00	00	01	01	11	01	01	11	01	01	
21	00	10	01	11	10	01	01	00	01	01	11	01	21	00	10	00	11	11	11	11	00	01	01	11	
22	11	00	01	10	01	00	01	00	01	01	11	00	22	01	10	00	01	11	11	01	11	01	11	11	
23	00	00	01	10	00	00	01	00	01	00	00	01	23	01	01	01	01	01	00	00	01	01	11	01	
24	01	10	01	10	10	00	10	00	01	01	00	01	24	10	01	01	11	00	00	00	01	01	11	01	
25	01	00	01	01	01	00	11	00	11	11	11	11	25	10	01	01	01	01	01	11	01	00	00	01	
26	00	10	01	00	10	00	01	00	11	10	10	11	26	01	01	11	00	01	01	01	11	00	00	01	
27	00	01	11	00	00	00	11	00	01	01	00	00	27	11	00	10	11	00	01	11	11	01	01	01	
28	10	11	01	00	10	00	01	10	00	00	01	01	28	00	10	11	11	11	00	00	11	01	10	11	
29	00	00	11	00	11	00	00	11	00	00	00	10	29	01	00	11	00	11	00	10	01	01	01	01	
30	00	00	11	00	11	00	00	01	01	00	00	00	30	01	00	01	11	00	11	11	00	01	01	01	
31	10	00	11	00	01	00	10	01	00	11	00	11	31	11	00	00	00	00	00	11	11	00	01	00	

(1 1) ; LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1980)
 ESTACION: PUTRE CODIGO : 01202051 1

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1981)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	01	01	00	00	11	00	00	00	01	00	10	1	00	00	00	01	00	00	01	11	01	11	11	
2	00	00	01	00	01	11	00	00	00	01	00	11	2	00	10	00	01	11	00	10	01	11	11	11	
3	00	01	00	01	11	11	00	00	00	11	00	11	3	00	00	00	01	01	10	10	01	01	11	10	
4	00	01	11	00	01	00	00	00	00	00	00	11	4	00	00	00	01	00	11	11	01	11	11	11	
5	00	01	11	00	11	01	00	00	00	11	00	11	5	00	10	00	01	00	00	01	00	11	00	10	
6	00	01	10	01	11	10	00	00	00	11	00	01	6	00	10	10	11	00	11	00	10	01	10	01	
7	01	11	11	00	01	11	01	00	00	11	00	01	7	00	00	00	11	01	10	00	01	00	11	11	
8	01	01	10	01	01	01	00	00	00	01	00	01	8	00	00	00	01	00	00	01	01	00	00	11	
9	00	01	11	01	01	11	00	00	00	01	00	00	9	00	00	00	11	01	11	01	01	00	10	11	
10	00	00	01	01	01	00	00	00	00	00	00	00	10	00	10	00	00	10	01	00	01	01	01	11	
11	01	01	10	01	11	11	00	00	00	01	00	01	11	00	10	00	10	10	01	00	10	01	00	11	
12	01	01	00	01	01	11	00	00	00	00	00	11	12	00	00	00	00	00	00	00	01	01	01	11	
13	01	01	10	01	01	01	00	00	00	01	00	00	13	00	00	00	00	11	01	01	01	01	00	11	
14	01	01	01	01	01	01	10	00	00	01	00	01	14	00	00	01	11	10	00	01	11	01	00	11	
15	01	01	11	00	01	00	10	00	00	01	00	10	15	00	00	00	00	11	01	01	00	00	01	11	
16	01	01	01	01	11	01	00	00	00	01	00	11	16	00	00	00	00	00	10	01	11	00	00	01	
17	01	00	10	01	11	01	00	00	00	01	00	01	17	00	00	10	00	00	00	01	00	01	10	01	
18	01	00	11	01	01	01	00	00	00	01	00	01	18	00	00	00	00	00	10	01	00	00	10	11	
19	01	00	11	01	01	01	10	00	00	01	00	01	19	00	00	00	00	00	01	01	00	00	00	01	
20	01	11	01	01	11	11	00	00	00	01	00	01	20	00	00	00	00	00	00	11	00	11	00	01	
21	00	01	00	01	11	11	10	00	00	00	00	01	21	00	00	01	01	10	01	00	00	00	01	01	
22	00	01	00	01	01	01	00	00	00	01	00	01	22	00	00	01	00	10	11	11	01	10	01	11	
23	01	01	11	01	01	11	00	00	00	01	00	01	23	00	00	00	00	10	01	11	01	11	01	11	
24	01	01	00	11	01	11	00	00	00	00	00	00	24	00	00	01	10	00	01	01	00	01	01	11	
25	01	01	00	01	11	11	00	00	00	00	00	01	25	00	01	01	01	00	01	00	00	01	01	11	
26	00	01	11	01	11	11	00	00	00	00	00	01	26	00	00	01	01	00	11	01	01	00	01	11	
27	01	00	10	01	11	11	00	00	00	00	00	01	27	00	00	00	10	00	00	01	00	01	01	11	
28	01	00	10	01	01	11	00	00	00	00	00	00	28	00	00	00	11	10	01	11	01	11	01	11	
29	01	11	11	00	01	11	00	00	00	00	00	00	29	00	00	00	00	00	01	01	11	11	01	11	
30	01	00	01	11	11	11	00	00	00	00	00	00	30	00	00	00	00	11	01	01	11	01	01	11	
31	01	00	01	00	11	00	00	00	00	00	00	00	31	00	00	01	00	00	00	11	11	00	01	00	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1982)
 ESTACION: PUTRE

LDPI60 : 01202051 1

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1983)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	11	11	10	01	10	00	00	11	01	01	01	01	1	10	01	11	11	10	00	01	01	00	01	00	00
2	11	11	01	00	00	01	01	11	00	01	10	11	2	00	00	11	11	10	01	11	10	10	00	00	00
3	11	11	00	00	01	01	01	11	11	11	00	11	3	01	01	11	11	00	01	11	00	00	10	00	00
4	11	11	11	10	01	01	01	01	01	11	10	10	4	01	01	10	11	01	01	11	00	00	10	00	01
5	01	11	10	11	01	01	01	11	11	00	01	10	5	00	11	11	01	01	01	01	00	00	10	10	00
6	11	11	01	01	01	01	00	11	01	01	00	11	6	00	11	11	01	01	01	11	11	10	11	10	00
7	11	11	01	01	01	01	01	11	00	00	00	11	7	01	01	11	10	01	01	00	01	11	10	00	00
8	11	11	01	01	01	01	00	11	00	00	00	11	8	01	00	01	10	00	01	00	10	10	10	00	00
9	11	11	01	01	11	11	01	11	00	00	00	01	9	00	01	00	10	01	01	01	10	00	00	00	00
10	11	00	01	11	00	01	00	11	00	00	01	11	10	00	00	00	10	00	00	10	10	01	00	00	00
11	11	11	01	10	10	11	00	01	00	00	00	01	11	01	10	00	01	11	10	00	10	10	01	00	01
12	11	10	10	01	01	01	00	01	00	00	00	11	12	01	00	00	01	00	10	11	10	01	00	00	01
13	11	01	01	01	01	01	00	01	00	10	10	01	13	11	00	00	11	01	01	01	11	10	10	00	11
14	11	01	10	01	01	01	00	01	01	00	01	00	14	11	11	10	10	11	01	10	11	00	00	00	01
15	11	01	10	01	01	00	00	01	11	00	00	00	15	11	11	11	01	11	00	10	00	10	00	00	00
16	01	11	11	11	11	00	00	11	11	00	00	00	16	01	11	11	01	11	00	01	00	10	00	00	00
17	11	11	11	01	01	00	10	11	11	00	00	00	17	01	11	11	00	01	00	01	00	11	00	00	00
18	11	00	01	01	01	10	10	11	11	01	10	00	18	00	10	11	10	01	01	10	10	10	10	00	10
19	11	01	00	01	00	11	10	11	11	01	00	00	19	01	11	11	00	01	00	11	10	00	10	00	01
20	11	11	01	11	01	11	01	00	11	11	00	00	20	01	01	11	11	00	01	00	11	10	01	10	00
21	11	11	00	11	11	11	00	10	01	11	10	11	21	11	01	10	01	01	00	01	10	00	01	00	01
22	11	01	01	11	01	11	00	01	01	11	10	01	22	01	01	10	11	01	00	00	10	00	11	00	01
23	01	00	00	00	11	11	00	11	10	11	00	11	23	00	01	00	11	11	00	10	10	00	11	00	11
24	01	00	01	00	11	11	00	11	01	11	00	11	24	10	00	11	11	11	01	00	00	00	00	00	11
25	01	01	11	01	10	01	11	01	01	11	10	11	25	11	01	11	00	10	01	11	00	00	10	00	11
26	11	00	01	00	11	11	11	11	00	10	10	11	26	11	00	11	01	00	00	00	00	10	00	01	01
27	11	01	11	01	10	01	11	11	01	01	01	01	27	11	01	11	01	01	00	01	00	01	10	00	01
28	11	10	01	00	10	01	01	11	01	11	01	11	28	11	11	11	11	01	00	01	00	00	10	00	01
29	11	00	01	10	00	01	11	10	01	00	11	11	29	11	00	11	10	01	00	01	00	01	10	10	10
30	11	00	01	00	11	01	10	01	01	11	11	01	30	11	00	11	11	00	00	00	00	01	10	00	11
31	11	00	01	00	11	00	11	01	00	11	00	00	31	11	00	11	00	01	00	01	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1984)
 ESTACION: PUTRE CODIGO : 01202051 1

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1985)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	1	0	0	0	0	0	1	1	1	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	
2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	1	0	0	0	1	1	1	1	1	1	0	1	1	0	0	1	0	0	1	0	
4	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	
5	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	
6	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	
7	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	
10	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	
11	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	
12	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	
13	0	0	0	1	0	0	0	0	0	1	1	0	1	1	0	1	0	0	0	0	1	0	0	0	
14	0	0	0	1	0	0	0	0	0	1	1	0	1	0	1	0	0	0	0	0	1	1	0	0	
15	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	
16	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	1	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	
19	1	0	0	0	1	0	0	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0	1	
20	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	1	0	1	0	0	1	1	1	0	1	1	1	0	0	0	1	0	0	0	0	
22	1	0	0	0	1	0	0	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	
23	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	
24	0	1	0	0	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	
25	0	1	0	0	0	0	1	1	0	1	0	1	0	1	0	1	0	0	0	0	0	1	0	0	
26	0	0	0	0	1	1	0	0	0	1	1	1	0	1	0	1	0	0	0	0	0	0	0	1	
27	0	0	0	0	1	0	0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	1	
28	0	0	0	0	0	1	0	0	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	1	
29	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	1	
30	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	
31	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	

{1 1} : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1986)
 ESTACION: PUTRE CODIGO : 01202051 1

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1987)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	11	00	01	01	00	01	1	01	01	01	11	00	10	00	00	00	01	01	
2	00	10	11	00	00	00	01	01	00	01	00	01	2	01	01	00	01	00	00	10	00	00	00	01	01
3	00	10	01	00	00	00	01	01	00	01	00	00	3	10	01	00	01	00	00	10	00	00	00	01	01
4	10	01	00	00	00	00	01	00	00	01	00	00	4	10	01	00	01	00	01	10	00	00	00	00	01
5	00	00	00	00	00	00	01	00	00	00	00	00	5	00	00	00	01	10	01	00	00	00	00	00	01
6	00	00	00	00	00	00	01	00	00	01	00	00	6	01	01	00	01	10	01	00	00	00	00	00	01
7	00	01	00	00	00	00	01	00	00	00	00	00	7	01	01	01	00	00	00	00	00	00	00	01	01
8	00	00	00	00	00	00	01	00	00	00	00	10	8	00	00	01	01	01	01	00	00	00	00	01	00
9	00	00	00	00	00	10	01	00	00	00	00	11	9	00	00	01	01	00	00	00	00	00	00	01	01
10	00	00	00	00	00	00	01	00	00	10	00	01	10	01	00	01	01	00	00	00	00	00	00	00	01
11	00	00	00	00	00	00	01	01	01	00	01	01	11	01	01	00	11	00	00	00	00	00	00	00	01
12	00	00	00	00	00	00	01	01	00	00	00	00	12	01	00	00	01	00	10	00	00	00	00	00	01
13	00	00	10	00	00	00	01	01	00	00	01	00	13	01	01	00	00	10	11	00	00	00	00	01	00
14	00	00	00	00	00	00	01	00	00	00	01	00	14	01	00	01	00	00	11	00	00	00	00	00	01
15	00	00	00	00	00	00	01	00	00	00	01	00	15	01	11	00	00	01	11	00	00	00	00	00	00
16	00	00	00	01	00	00	01	01	00	00	00	01	16	01	00	00	01	00	00	00	00	00	00	00	00
17	00	00	00	01	00	00	01	01	01	00	11	01	17	01	01	01	00	01	00	00	00	00	00	01	00
18	00	00	00	01	00	00	01	00	01	01	00	00	18	01	01	01	00	01	00	00	00	00	00	01	00
19	10	00	00	00	00	00	01	11	00	01	00	01	19	01	01	01	10	00	00	01	00	00	11	01	01
20	00	00	00	00	00	00	10	01	00	00	00	01	20	01	00	00	00	01	11	00	00	00	10	01	00
21	00	00	00	11	00	00	11	01	00	00	00	00	21	10	00	01	00	00	11	11	00	00	01	00	00
22	11	00	00	11	00	00	01	00	00	00	00	11	22	10	00	00	00	00	00	00	00	00	01	01	00
23	00	00	00	10	00	00	01	00	01	00	00	00	23	00	10	00	00	11	00	00	00	00	01	00	00
24	00	00	00	01	00	00	01	00	01	00	00	00	24	00	00	00	00	01	00	00	00	00	01	00	01
25	00	00	01	01	00	00	01	00	00	00	00	00	25	00	00	01	01	11	00	00	00	00	01	00	01
26	01	00	01	01	00	00	00	00	00	00	00	00	26	00	00	01	01	00	00	00	00	00	01	01	01
27	11	00	01	10	00	00	00	00	01	10	01	00	27	10	00	11	11	00	00	00	00	00	00	01	01
28	00	00	01	00	00	00	00	01	00	00	00	00	28	00	00	01	01	00	00	00	00	00	00	00	01
29	00	00	01	00	10	10	01	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00	01	10
30	00	00	01	00	00	00	00	01	00	01	00	01	30	00	00	00	00	00	00	01	00	00	01	01	00
31	00	00	11	00	00	00	01	01	00	00	00	00	31	01	00	01	00	00	00	01	00	00	01	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1988)
 ESTACION: PUTRE

CDDIBD : 01202051 1

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1989)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	01	11	00	11	01	01	00	01	1	01	00	00	10	01	01	01	00	01	00	00	
2	00	00	01	00	01	00	01	01	01	01	01	01	2	00	00	01	00	01	01	01	01	01	00	00	01
3	00	00	00	00	01	01	01	01	01	01	01	01	3	00	00	01	00	01	00	01	00	01	01	01	01
4	10	00	00	00	01	01	01	01	01	01	01	01	4	00	00	01	00	01	00	01	00	01	01	01	01
5	00	00	00	00	01	00	00	01	01	01	01	01	5	00	10	11	00	00	00	01	01	01	01	00	01
6	00	00	00	00	01	01	00	01	01	01	01	01	6	00	00	01	00	00	01	01	00	01	01	00	01
7	00	01	00	00	01	01	00	01	01	00	11	01	7	00	00	00	00	00	01	01	00	01	11	01	01
8	00	00	00	00	00	00	01	11	01	10	00	01	8	01	10	00	01	01	01	01	01	01	01	01	01
9	00	00	00	01	01	00	01	01	01	00	01	01	9	00	00	00	00	00	01	01	01	01	01	11	01
10	00	01	00	00	01	00	01	00	01	00	01	01	10	00	00	00	00	00	01	01	01	01	01	01	01
11	00	00	00	00	01	00	01	00	01	01	01	01	11	00	00	00	01	00	01	01	01	01	01	00	01
12	00	00	00	10	01	00	01	00	01	01	01	01	12	00	00	00	01	00	01	01	01	01	01	01	01
13	00	00	00	00	01	00	01	00	01	00	01	01	13	00	00	00	00	01	01	01	00	01	01	01	00
14	00	01	00	00	01	01	01	01	01	00	01	01	14	00	00	00	00	01	01	10	00	01	11	01	01
15	00	10	01	00	01	11	01	01	01	01	01	01	15	01	10	00	01	00	01	01	01	01	01	01	01
16	00	00	00	00	01	11	01	01	01	01	01	01	16	01	00	00	00	01	11	01	01	00	00	01	01
17	00	00	00	01	00	01	00	01	01	01	00	01	17	01	00	01	00	01	01	01	01	00	01	01	01
18	00	00	00	01	00	01	01	11	00	01	01	01	18	00	00	00	01	01	01	00	01	10	00	01	01
19	00	00	00	00	00	01	01	01	01	00	01	00	19	00	00	00	01	01	01	01	11	00	01	01	00
20	00	00	00	00	00	01	01	00	00	01	01	00	20	00	00	01	00	01	00	01	11	00	00	01	00
21	00	00	00	00	01	00	01	01	01	00	01	00	21	00	00	10	00	01	00	00	01	00	01	01	00
22	00	00	00	00	00	00	01	01	00	00	01	01	22	00	01	00	01	01	01	00	01	00	01	01	00
23	10	01	00	00	00	01	01	00	00	00	00	01	23	00	01	10	01	00	01	01	00	00	01	01	00
24	00	01	00	00	10	01	01	00	01	01	01	01	24	00	01	01	00	00	00	11	00	00	00	01	00
25	00	01	00	10	00	11	01	01	01	01	01	01	25	00	00	01	01	01	01	01	00	00	00	01	00
26	00	01	00	01	00	11	01	01	01	01	00	01	26	00	01	11	01	01	00	01	01	01	01	01	01
27	00	01	00	00	00	01	01	00	00	01	00	00	27	00	01	10	01	01	01	01	00	01	00	01	01
28	00	01	00	00	00	01	01	00	01	01	01	01	28	10	00	00	01	00	01	00	00	01	00	01	01
29	00	00	00	00	00	00	01	00	01	01	01	01	29	00	00	00	01	01	01	01	01	01	00	00	00
30	01	00	00	01	00	00	01	01	01	01	00	00	30	00	00	00	01	01	01	01	01	01	00	00	00
31	00	00	00	00	01	00	01	01	00	01	00	11	31	00	00	00	00	01	00	01	01	00	01	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.7 Estación Arica Oficina D.G.A.

3.7.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur $18^{\circ} 30'$ y Longitud Oeste $70^{\circ} 20'$ a una altura de 20 msnm.

Posee estadística de lecturas directas a partir de Septiembre de 1974 y registro termográficos desde Diciembre de 1974.

3.7.2 Información existente

La tabla 17 muestra la información existente de la estación de lecturas directas, la que totaliza 37 meses. La tabla 18 muestra la información existente de termogramas la que totaliza 81 meses.

3.7.3 Información traducida

En esta estación existe un periodo de registros termográficos previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero de 1975 a Enero de 1981, con excepción de Febrero de 1976, Noviembre de 1977, Marzo a Mayo de 1978 y Agosto a Septiembre de 1980 (66 meses). Por lo tanto la traducción por parte del consultor abarca 37 meses de lecturas directas y 15 meses de registros termográficos.

3.7.4 Validación

Se ha efectuado una entre las lecturas del higrotermógrafo y las lecturas directas en el periodo que les es común, usando el periodo total de información existente.

Además se ha comparado las lecturas directas con los valores de termogramas traducidos con anterioridad por la DGA, en el periodo anterior a Diciembre 1984, con lo cual se han eliminado los valores de lecturas directas que al compararlos con los valores de los termogramas previamente ingresados por la DGA, dan una diferencia mayor a ± 1.5 .

En esta estación no se han encontrado factores de corrección, la calidad de la información es buena.

Se incluye un listado de los promedios mensuales y desviaciones estándar para las lecturas directas y termográficas en todo el periodo.

ESTACION ARICA DF. DGA

TABLA 17

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
21/9/74	27/7/75	21/9/74	28/7/75
1/8/75	21/12/75	1/8/75	22/12/75
1/1/76	30/11/76	1/1/76	30/11/76
1/1/77	31/1/77	1/1/77	31/1/77
4/4/77	30/4/77	5/4/77	30/4/77
6/5/80	8/6/80	6/5/80	9/6/80
11/6/80	15/6/80	12/6/80	16/6/80
19/6/80	22/6/80	19/6/80	23/6/80
8/7/80	29/7/80	8/7/80	31/7/80
31/7/80	31/7/80	1/10/80	6/11/80
1/10/80	6/11/80	9/11/80	31/12/80
8/11/80	7/12/80	9/1/81	19/1/81
9/12/80	31/12/80	22/1/81	31/1/81
8/1/81	18/1/81		
21/1/81	31/1/81		

ESTACION ARICA DF. DGA

TABLA 18

TERMIGRAMAS

DESDE	HASTA
30/12/74	22/12/75
29/12/75	31/10/77
7/11/77	20/2/78
29/2/78	3/7/78
17/7/78	14/8/78
16/8/78	18/9/78
21/9/78	25/9/78
10/10/78	13/11/78
22/11/78	4/12/78
13/12/78	19/2/79
28/2/79	6/3/79
27/3/79	16/4/79
2/5/79	11/6/79
13/6/79	9/7/79
16/7/79	30/7/79
6/8/79	13/8/79

ESTACION ARICA OF. DGA

TABLA 18

TERMOGRAMAS

DESDE	HASTA
20/8/79	3/9/79
24/9/79	12/11/79
13/11/79	19/11/79
21/11/79	3/12/79
10/12/79	24/12/79
27/12/79	4/2/80
11/2/80	10/3/80
17/3/80	7/4/80
14/4/80	9/6/80
11/6/80	16/6/80
18/6/80	23/6/80
8/7/80	28/7/80
6/10/80	19/1/81
21/1/81	2/2/81
7/7/81	21/7/81
8/8/88	13/10/88
8/8/89	27/9/89
8/10/89	18/12/89

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : ARICA OFICINA D.B.A

CODIGO: 01310050

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ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
75	1	24.26	31	0.541	19.71	31	0.629
76	1	25.28	31	1.063	20.18	31	1.341
77	1	26.54	31	0.992	21.58	30	1.068
81	1	25.48	20	1.232	19.80	19	0.923
75	2	25.61	28	0.789	20.44	28	1.084
76	2	25.48	26	0.723	20.01	28	1.013
75	3	24.24	30	0.934	19.07	31	1.047
76	3	25.56	31	1.183	20.36	31	0.652
75	4	22.22	30	1.032	17.26	30	1.109
76	4	24.80	29	1.489	19.53	30	1.234
77	4	27.14	27	0.868	21.94	26	1.180
75	5	19.70	31	0.806	15.76	31	1.144
76	5	22.30	22	0.983	18.53	26	0.928
80	5	24.10	23	1.025	18.45	21	1.773
75	6	18.39	30	0.757	14.93	30	1.136
76	6	21.76	24	0.559	18.43	29	0.584
80	6	22.25	17	0.849	16.18	16	1.827
75	7	17.73	27	0.784	14.13	27	1.226
76	7	19.78	31	1.534	16.93	31	1.482
80	7	21.06	23	1.050	17.27	24	1.039
75	8	17.76	31	0.519	14.51	30	0.829
76	8	18.93	31	0.553	15.78	30	0.896
74	9	18.16	10	0.766	14.51	10	0.945
75	9	18.20	30	0.656	14.95	30	0.508
76	9	18.79	30	0.713	15.78	30	0.752
74	10	19.68	31	0.637	15.31	31	1.030
75	10	19.93	31	1.153	15.95	31	1.171
76	10	20.82	31	0.815	17.22	31	0.893
80	10	23.31	31	1.163	18.91	30	3.305
74	11	21.73	30	1.091	17.21	30	1.423
75	11	20.98	30	0.766	16.61	30	1.050
76	11	23.11	30	0.858	18.59	30	1.118
80	11	25.28	29	1.378	20.39	28	1.487
74	12	22.54	30	1.128	17.58	31	1.214
75	12	22.62	21	1.139	17.70	22	1.383
80	12	27.21	30	3.112	21.88	31	2.975

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : ARICA OFICINA D.G.A

CODIGO: 01310050

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ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
75	1	23.55	31	0.812	19.22	31	0.850
76	1	24.73	31	0.938	19.75	31	1.085
77	1	25.94	31	0.955	21.79	31	1.416
78	1	20.41	31	0.996	17.72	31	0.889
79	1	27.47	30	1.417	21.91	31	0.804
80	1	26.56	23	1.939	20.56	21	1.354
81	1	24.67	27	0.953	19.66	26	1.021
75	2	24.90	28	0.851	19.82	28	0.916
76	2	24.89	28	0.872	19.71	28	0.849
77	2	23.82	21	1.149	21.65	20	1.348
78	2	20.19	18	0.292	18.03	18	0.336
79	2	28.19	17	0.596	21.54	18	1.045
80	2	27.51	14	0.747	21.20	11	1.316
75	3	23.63	31	1.021	18.55	31	0.739
76	3	24.96	31	1.032	20.14	31	0.653
77	3	27.65	31	0.837	23.08	31	0.460
79	3	26.47	31	1.567	20.49	31	1.402
80	3	27.08	17	0.666	20.56	16	1.112
75	4	21.53	30	1.136	16.61	30	0.947
76	4	24.24	30	1.301	19.11	30	1.117
77	4	26.76	30	0.956	21.87	30	1.042
79	4	24.21	15	1.231	17.26	15	1.173
80	4	23.28	19	1.040	19.68	19	1.322
75	5	19.22	31	0.768	15.21	31	1.068
76	5	22.48	31	1.218	21.33	31	14.113
77	5	27.03	31	0.674	22.12	31	1.246
79	5	20.59	29	0.664	15.73	29	1.714
80	5	24.03	31	1.284	17.83	31	1.570
75	6	18.05	30	0.709	14.45	30	0.851
76	6	21.79	30	1.175	18.81	30	0.885
77	6	23.19	27	2.959	19.54	27	2.356
78	6	16.94	29	2.290	15.90	30	2.310
79	6	20.31	16	0.699	26.23	16	39.588
80	6	21.65	22	0.907	16.54	22	1.630
75	7	17.28	31	0.793	13.60	31	1.195
76	7	19.46	31	1.273	16.91	31	1.485
77	7	19.08	31	0.791	16.51	31	1.245
78	7	17.24	16	1.068	15.03	16	1.590
79	7	17.94	15	0.938	13.91	16	1.739
80	7	20.71	20	1.054	17.53	19	0.950
81	7	19.33	14	1.222	14.72	13	1.358

PROMEDIOS MENSUALES DE TERMIGRAMAS

ESTACION : ARICA OFICINA D.B.A

CODIGO: 01310050 0

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
75	8	17.38	31	0.656	13.94	31	0.948
76	8	18.62	31	0.541	15.79	31	0.858
77	8	18.76	31	0.705	16.88	31	0.882
78	8	17.56	28	1.140	14.26	28	0.473
79	8	18.68	15	3.637	12.78	16	3.482
88	8	17.97	23	0.750	13.90	22	0.786
89	8	17.43	24	0.572	13.96	23	0.723
75	9	17.73	30	0.694	14.62	30	0.382
76	9	18.28	30	0.770	15.78	30	0.726
77	9	19.06	30	0.559	16.92	30	0.881
78	9	18.18	24	0.585	14.13	24	0.825
79	9	19.26	13	0.425	14.86	14	1.177
88	9	17.93	29	1.805	14.68	29	0.769
89	9	17.25	25	1.455	13.28	24	1.878
75	10	19.52	31	0.971	15.50	31	1.000
76	10	20.23	31	0.825	17.16	31	0.891
77	10	20.20	31	1.568	17.83	31	1.506
78	10	21.56	22	1.344	16.25	21	1.169
79	10	22.02	31	1.233	17.88	31	1.066
80	10	23.39	25	0.893	19.61	24	0.871
88	10	18.95	12	1.826	15.55	12	1.151
89	10	25.52	21	0.693	22.14	21	0.972
75	11	20.36	30	0.764	15.87	30	0.983
76	11	22.51	30	0.773	18.46	30	1.065
77	11	15.93	18	0.874	12.53	18	1.145
78	11	24.48	21	0.886	18.81	21	1.398
79	11	24.67	30	1.811	19.75	30	1.702
80	11	25.40	26	1.377	20.66	25	1.551
89	11	25.50	2	0.424	22.63	3	0.416
74	12	22.85	2	0.495	19.10	1	0.000
75	12	22.18	24	1.415	17.39	24	1.723
76	12	24.91	31	1.877	20.36	31	1.726
77	12	21.22	31	1.492	18.64	31	1.301
78	12	24.86	17	0.895	18.79	15	1.196
79	12	24.22	16	0.991	18.99	12	1.057
80	12	27.14	28	3.254	21.87	29	3.041
89	12	25.05	13	1.237	22.22	12	1.435

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1974)
 ESTACION: ARICA OFICINA D.B.A

CODIGO : 01310050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1975)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00		
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00		
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00		
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

{1 1} : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1976)

ESTACION: ARICA OFICINA D.G.A

CODIGO : 01310050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1977)

DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	10	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	00	00	10	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	00	00	00	00	00	00	00	10	01	00	00	00	00	00	00	00	00	00		
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	10	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00		
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	00	00	10	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	01	00	00	01	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	10	00	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	00	10	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	00	00	00	01	10	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00		
24	00	00	00	00	10	10	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	00	00	11	10	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	00	00	10	10	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	10	00	00	10	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00		
29	00	00	00	00	11	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	00	11	01	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	10	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(11) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1978)
 ESTACION: ARICA OFICINA D.S.A

CDRIGD : 01310050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1979)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00		
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00		
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00		
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1980)
 ESTACION: ARICA OFICINA D.B.A CODIGO : 01310050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1981)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00	00	
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00	00	
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00	00	
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00	00	
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00	00	
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00	00	
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00	00	
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00	00	
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00	00	
10	00	00	00	00	10	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00	00	
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00	00	
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00	00	
13	00	00	00	00	00	01	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00	00	
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00	00	
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00	00	
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00	00	
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00	00	
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00	00	
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00	00	
20	00	00	00	00	00	01	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00	00	
21	00	00	00	00	11	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00	00	
22	00	00	00	00	01	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00	00	
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00	00	
24	00	00	00	00	01	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00	00	
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00	00	
26	00	00	00	00	01	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00	00	
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00	00	
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00	00	
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00	00	
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00	00	
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00	00	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1988)
 ESTACION: ARICA OFICINA D.B.A CODIGO : 01310050 0

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1989)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00	00	
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00	00	
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00	00	
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00	00	
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00	00	
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00	00	
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00	00	
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00	00	
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00	00	
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00	00	
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00	00	
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00	00	
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00	00	
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00	00	
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00	00	
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00	00	
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00	00	
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00	00	
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00	00	
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00	00	
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00	00	
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00	00	
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00	00	
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00	00	
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00	00	
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00	00	
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00	00	
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00	00	
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00	00	
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00	00	
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00	00	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.8 Estación Azapa

3.8.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur $18^{\circ} 31'$ y Longitud Oeste $70^{\circ} 11'$ a una altura de 250 msnm.

Posee estadística de lecturas directas a partir de 01/12/68 y registro termográficos desde 16/12/68.

3.8.2 Información existente

La tabla 19 muestra la información existente de la estación de lecturas directas, la que totaliza 144 meses (hasta Diciembre de 1988). La tabla 20 muestra la información existente de termogramas la que totaliza 222 meses.

3.8.3 Información traducida

En esta estación existe un período de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero 1986 a Diciembre 1989, a excepción del mes de Noviembre de 1989 (47 meses) y registros termográficos a partir de Diciembre de 1968 a Noviembre de 1984, a excepción de los meses Febrero a Mayo, Agosto de 1969; Enero a Junio de 1975; Enero de 1978; Agosto a Septiembre, Noviembre de 1980; Junio de 1983; (152 meses). Por lo tanto la traducción por parte del consultor abarca 108 meses de lecturas directas y 70 meses de registros termográficos.

3.8.4 Validación

Se ha efectuado una entre las lecturas del higrotermógrafo y las lecturas directas en el periodo que les es común, usando el periodo total de información existente.

Los factores de corrección aplicados a los termogramas se muestran en la tabla 21.

Después de aplicadas los factores de corrección mediante un proceso computacional se ha descartado todos los valores de Lecturas directas máximas y mínimas fuera del rango ± 1.9 . Se incluye un listado con el detalle de los valores eliminados.

Se incluye un listado de los promedios mensuales y desviaciones estándar para las lecturas directas y termográficas en todo el periodo.

ESTACION AZAPA

TABLA 19

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
1/12/68	30/12/68	1/12/68	16/12/68
0/1/69	31/1/69	18/12/68	31/1/69
1/5/69	26/7/71	1/5/69	30/0/71
28/7/71	31/8/71	1/2/71	30/5/71
1/6/75	30/6/75	1/6/71	26/7/71
14/7/75	7/9/75	28/7/71	30/7/71
9/9/75	30/4/76	1/8/71	31/8/71
2/3/80	6/3/80	1/6/75	30/6/75
10/3/80	13/3/80	14/7/75	6/9/75
17/3/80	20/3/80	8/9/75	30/4/76
24/3/80	27/3/80	3/3/80	7/3/80
31/3/80	2/4/80	11/3/80	14/3/80
7/4/80	8/4/80	19/3/80	21/3/80
14/4/80	14/4/80	25/3/80	28/3/80
17/4/80	17/4/80	1/4/80	3/4/80
21/4/80	24/4/80	8/4/80	9/4/80
28/4/80	28/4/80	14/4/80	15/4/80
1/5/80	22/5/80	18/4/80	18/4/80
26/5/80	31/5/80	22/4/80	25/4/80
2/6/80	20/6/80	28/4/80	28/4/80
22/6/80	31/7/80	1/5/80	22/5/80
1/10/80	31/10/80	26/5/80	31/5/80
1/12/80	20/3/81	2/6/80	20/6/80
22/3/81	27/3/81	23/6/80	31/7/80
29/3/81	30/3/81	1/10/80	31/10/80
1/4/81	2/4/81	1/12/80	21/3/81
5/4/81	23/4/82	23/3/81	27/3/81
29/4/81	30/4/82	30/3/81	31/3/81
3/5/82	30/9/82	2/4/81	3/4/81
2/10/82	30/7/83	6/4/81	22/4/82
1/8/83	25/11/83	28/4/82	30/4/82
27/11/83	1/12/83	3/5/82	30/6/82
4/12/83	23/12/83	2/7/82	30/7/83
28/12/83	7/8/87	1/8/83	26/11/83
9/8/87	20/3/88	28/11/83	2/12/83
22/3/88	13/6/88	5/12/83	24/12/83
15/6/88	31/12/88	29/12/83	31/12/88

TABLA 20

TERMOGRAMAS

DESDE	HASTA
16/12/68	3/2/69
28/4/69	28/7/69
4/9/69	12/1/70
13/1/70	10/8/70
13/8/70	19/8/70
20/8/70	3/4/72
10/4/72	2/10/72
3/10/72	6/11/72
13/11/72	27/11/72
4/12/72	18/12/72
19/12/72	22/5/73
23/5/73	15/11/73
16/11/73	31/12/73
7/7/75	21/6/76
25/6/76	6/12/76
13/12/76	3/1/77
4/1/77	17/1/77
31/1/77	21/2/77
9/3/77	11/4/77
20/4/77	9/6/77
14/6/77	8/8/77
5/9/77	10/10/77
24/10/77	2/1/78
8/2/78	24/2/78
8/3/78	5/4/78
11/4/78	15/8/78
16/8/78	20/9/78
26/9/78	22/12/78
27/12/78	4/1/79
5/1/79	3/11/79
5/11/79	31/12/79
2/1/80	23/5/80
26/5/80	21/6/80
23/6/80	28/7/80
29/9/80	24/10/80
27/10/80	3/11/80
1/12/80	5/4/81
6/4/81	21/12/81
22/12/81	11/1/82
18/1/82	22/4/82
27/4/82	2/5/82
3/5/82	4/3/83
5/3/83	8/5/83
9/5/83	16/1/84
17/1/84	30/4/86
1/5/86	2/1/89

TABLA 21

FACTORES DE CORRECCION

INICIO	TERMINO	FC
10 08 70	24 08 70	-1.0
08 12 75	22 12 75	-1.0
29 12 75	31 12 75	-1.0
05 05 80	12 05 80	+1.0
26 05 80	31 05 80	+1.0
01 01 82	04 01 82	-1.0
25 01 82	31 01 82	-1.5
13 06 83	27 06 83	-1.5
03 12 84	10 12 84	-4.0
10 12 84	17 12 84	-6.0
17 12 84	07 01 85	-5.0
07 01 85	14 01 85	-6.0
14 01 85	21 01 85	-5.0
21 01 85	28 01 85	-6.0
28 01 85	04 02 85	-5.0
04 02 85	18 03 85	-6.0
18 03 85	01 04 85	-6.5
27 05 85	03 06 85	-1.0
03 06 85	10 06 85	-2.0
10 06 85	22 07 85	-1.0
22 07 85	29 07 85	-2.0
29 07 85	19 08 85	-1.0
19 08 85	26 08 85	-2.0
26 08 85	02 09 85	-1.0
02 09 85	28 10 85	-2.0
05 05 86	12 05 86	-1.0
19 05 86	09 06 86	-1.0
27 10 86	03 11 86	-1.0
29 12 86	05 01 87	+1.0
19 01 87	26 01 87	+1.0
30 03 87	06 04 87	+2.0
08 06 87	22 06 87	-1.0
29 06 87	06 07 87	-1.0
03 08 87	17 08 87	-1.0
11 01 88	18 01 88	-1.0
18 01 88	25 01 88	-1.3
25 01 88	15 02 88	-1.0
15 02 88	27 02 88	-2.4
22 02 88	29 02 88	-2.1
29 02 88	04 04 88	-1.0
02 05 88	09 05 88	-1.0
01 08 88	08 08 88	+2.4
08 08 88	15 08 88	+2.1
15 08 88	22 08 88	+2.0
22 08 88	29 08 88	+1.5
29 08 88	05 09 88	+1.6

FABLA 21 (Continuación)

FACTORES DE CORRECCION

INICIO	TERMINO	FC
12 09 88	19 09 88	+1.7
26 09 88	03 10 88	+2.0
03 10 88	10 10 88	+1.0
10 10 88	17 10 88	+2.0
17 10 88	24 10 88	+0.5
24 10 88	14 11 88	+1.0
21 11 88	28 11 88	+1.0
26 12 88	31 12 88	+1.0

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : AZAPA

CODIGO: 01310031 9

ano	mes	FROM(MAX)	N DIAS	D. ESTANDAR	FROM(MIN)	N DIAS	D. ESTANDARD
68	1	0.00	0	0.000	0.00	0	0.000
69	1	29.50	31	0.949	15.65	31	1.803
70	1	26.79	31	0.859	16.38	31	1.487
71	1	26.12	31	1.201	15.73	30	1.823
72	1	0.00	0	0.000	0.00	0	0.000
73	1	0.00	0	0.000	0.00	0	0.000
74	1	0.00	0	0.000	0.00	0	0.000
75	1	0.00	0	0.000	0.00	0	0.000
76	1	27.07	31	1.266	15.76	31	2.377
77	1	0.00	0	0.000	0.00	0	0.000
78	1	0.00	0	0.000	0.00	0	0.000
79	1	0.00	0	0.000	0.00	0	0.000
80	1	0.00	0	0.000	0.00	0	0.000
81	1	27.79	31	0.780	16.39	31	1.821
82	1	28.91	21	1.711	15.88	22	1.424
83	1	30.34	31	1.210	21.68	31	1.713
84	1	28.47	31	1.088	17.58	31	1.649
85	1	27.59	30	1.159	16.02	15	2.261
86	1	27.23	31	1.021	17.01	31	1.466
87	1	28.46	30	1.167	18.07	28	1.613
88	1	26.97	31	0.748	17.46	31	1.316
89	1	26.55	31	1.095	14.30	31	1.841
68	2	0.00	0	0.000	0.00	0	0.000
69	2	0.00	0	0.000	0.00	0	0.000
70	2	27.73	28	1.347	16.65	28	1.309
71	2	26.15	28	0.806	15.79	28	1.658
72	2	0.00	0	0.000	0.00	0	0.000
73	2	0.00	0	0.000	0.00	0	0.000
74	2	0.00	0	0.000	0.00	0	0.000
75	2	0.00	0	0.000	0.00	0	0.000
76	2	28.12	28	1.061	17.04	28	1.461
77	2	0.00	0	0.000	0.00	0	0.000
78	2	0.00	0	0.000	0.00	0	0.000
79	2	0.00	0	0.000	0.00	0	0.000
80	2	0.00	0	0.000	0.00	0	0.000
81	2	29.64	28	1.244	15.31	28	1.459
82	2	29.54	28	1.336	16.21	28	1.330
83	2	30.51	28	1.033	21.95	28	1.505
84	2	27.90	28	0.848	17.83	28	1.400
85	2	28.00	26	0.878	17.62	17	1.528
86	2	28.17	28	1.365	16.52	28	1.998
87	2	28.64	28	0.839	17.80	27	1.727
88	2	27.86	25	0.907	14.94	26	1.249
89	2	29.85	28	1.019	16.94	28	1.171
68	3	0.00	0	0.000	0.00	0	0.000

PRÓMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : AZAPA

CODIGO: 01310051

9

ano	mes	PROM(MAX)	N DIAS	D. ESTANDAR	PROM(MIN)	N DIAS	D. ESTANDAR
69	3	0.00	0	0.000	0.00	0	0.000
70	3	27.22	31	1.100	16.03	31	1.721
71	3	24.93	31	0.874	14.40	31	1.739
72	3	0.00	0	0.000	0.00	0	0.000
73	3	0.00	0	0.000	0.00	0	0.000
74	3	0.00	0	0.000	0.00	0	0.000
75	3	0.00	0	0.000	0.00	0	0.000
76	3	27.53	31	1.078	16.79	31	1.386
77	3	0.00	0	0.000	0.00	0	0.000
78	3	0.00	0	0.000	0.00	0	0.000
79	3	0.00	0	0.000	0.00	0	0.000
80	3	28.49	19	0.948	16.04	17	1.650
81	3	28.56	28	1.157	17.77	28	1.823
82	3	27.90	31	1.770	13.87	31	1.426
83	3	30.38	31	1.355	20.31	31	1.730
84	3	26.46	31	1.188	16.11	31	1.315
85	3	28.30	29	1.382	16.52	26	1.868
86	3	26.33	31	1.358	15.66	31	1.411
87	3	28.00	31	1.680	17.20	28	1.604
88	3	26.22	28	1.427	15.54	29	2.043
89	3	27.79	30	1.152	14.97	31	1.363
68	4	0.00	0	0.000	0.00	0	0.000
69	4	0.00	0	0.000	0.00	0	0.000
70	4	24.75	30	0.997	15.34	30	2.113
71	4	23.76	30	1.971	14.90	30	2.647
72	4	0.00	0	0.000	0.00	0	0.000
73	4	0.00	0	0.000	0.00	0	0.000
74	4	0.00	0	0.000	0.00	0	0.000
75	4	0.00	0	0.000	0.00	0	0.000
76	4	25.71	30	2.689	14.29	30	2.572
77	4	0.00	0	0.000	0.00	0	0.000
78	4	0.00	0	0.000	0.00	0	0.000
79	4	0.00	0	0.000	0.00	0	0.000
80	4	26.85	11	1.101	14.66	13	2.682
81	4	25.86	28	1.200	15.15	27	2.888
82	4	25.82	25	1.225	13.12	25	1.762
83	4	26.65	30	2.056	17.93	30	2.109
84	4	24.14	30	1.348	13.15	30	1.921
85	4	23.32	24	1.087	14.58	23	1.800
86	4	24.16	29	1.109	13.86	29	1.849
87	4	24.69	29	1.279	13.75	27	1.682
88	4	24.47	27	1.286	12.75	28	2.258
89	4	24.97	30	1.125	13.09	30	2.000
68	5	0.00	0	0.000	0.00	0	0.000
69	5	22.14	22	1.329	13.53	21	1.983

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : AZAPA

CODIGO: 01310051 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
70	5	21.96	31	1.759	12.44	31	3.464
71	5	20.57	31	1.014	13.59	30	2.607
72	5	0.00	0	0.000	0.00	0	0.000
73	5	0.00	0	0.000	0.00	0	0.000
74	5	0.00	0	0.000	0.00	0	0.000
75	5	0.00	0	0.000	0.00	0	0.000
76	5	0.00	0	0.000	0.00	0	0.000
77	5	0.00	0	0.000	0.00	0	0.000
78	5	0.00	0	0.000	0.00	0	0.000
79	5	0.00	0	0.000	0.00	0	0.000
80	5	23.93	28	1.047	11.24	23	2.703
81	5	23.33	31	1.371	12.05	31	2.140
82	5	22.14	29	1.177	12.03	29	2.874
83	5	25.08	31	1.143	17.86	31	2.453
84	5	21.01	31	1.287	13.75	31	2.649
85	5	20.95	31	1.223	12.18	24	2.052
86	5	22.23	31	1.178	13.18	25	2.930
87	5	22.51	31	1.687	12.31	27	1.912
88	5	21.45	31	1.570	11.79	27	2.291
89	5	21.38	31	1.573	8.53	31	2.220
68	6	0.00	0	0.000	0.00	0	0.000
69	6	20.84	30	1.681	12.70	30	2.427
70	6	19.02	30	0.901	11.07	30	2.054
71	6	18.74	30	1.337	10.80	30	2.583
72	6	0.00	0	0.000	0.00	0	0.000
73	6	0.00	0	0.000	0.00	0	0.000
74	6	0.00	0	0.000	0.00	0	0.000
75	6	19.16	30	1.008	13.47	30	1.471
76	6	0.00	0	0.000	0.00	0	0.000
77	6	0.00	0	0.000	0.00	0	0.000
78	6	0.00	0	0.000	0.00	0	0.000
79	6	0.00	0	0.000	0.00	0	0.000
80	6	21.19	29	1.212	11.16	28	2.919
81	6	21.33	30	1.038	11.98	30	2.581
82	6	19.65	30	0.995	10.77	30	2.043
83	6	22.98	28	1.212	15.78	26	2.134
84	6	18.75	30	1.151	12.40	30	2.073
85	6	20.01	29	1.072	13.01	24	2.484
86	6	19.38	30	0.930	9.28	23	2.554
87	6	20.14	30	0.983	12.66	27	1.898
88	6	18.64	29	0.895	10.03	13	1.980
89	6	20.25	30	1.684	10.43	30	1.971
68	7	0.00	0	0.000	0.00	0	0.000
69	7	19.41	31	1.176	11.33	31	1.886
70	7	17.10	31	1.193	9.63	31	2.247

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : AZAPA CODIGO: 01310051 9

ano	mes	FROM(MAX)	N DIAS	D.ESTANDAR	FROM(MIN)	N DIAS	D.ESTANDARD
71	7	16.71	30	1.358	9.04	29	2.028
72	7	0.00	0	0.000	0.00	0	0.000
73	7	0.00	0	0.000	0.00	0	0.000
74	7	0.00	0	0.000	0.00	0	0.000
75	7	17.94	18	0.489	10.30	18	2.087
76	7	0.00	0	0.000	0.00	0	0.000
77	7	0.00	0	0.000	0.00	0	0.000
78	7	0.00	0	0.000	0.00	0	0.000
79	7	0.00	0	0.000	0.00	0	0.000
80	7	20.69	31	1.124	13.18	31	2.094
81	7	19.88	31	0.732	9.22	31	2.443
82	7	19.00	31	0.718	11.69	30	2.705
83	7	21.15	30	0.865	13.77	30	2.536
84	7	18.70	31	0.643	12.07	31	1.429
85	7	18.79	30	0.748	11.62	18	1.752
86	7	18.31	31	0.809	9.25	26	2.233
87	7	19.68	31	0.982	12.17	27	2.209
88	7	17.81	31	0.783	11.81	24	1.615
89	7	18.73	31	0.701	9.65	31	2.032
68	8	0.00	0	0.000	0.00	0	0.000
69	8	19.50	31	0.828	11.18	31	1.461
70	8	18.26	28	0.699	10.43	20	1.942
71	8	17.95	31	0.730	11.05	31	1.576
72	8	0.00	0	0.000	0.00	0	0.000
73	8	0.00	0	0.000	0.00	0	0.000
74	8	0.00	0	0.000	0.00	0	0.000
75	8	18.61	31	0.996	10.92	31	2.039
76	8	0.00	0	0.000	0.00	0	0.000
77	8	0.00	0	0.000	0.00	0	0.000
78	8	0.00	0	0.000	0.00	0	0.000
79	8	0.00	0	0.000	0.00	0	0.000
80	8	0.00	0	0.000	0.00	0	0.000
81	8	20.46	31	1.267	11.21	31	2.568
82	8	19.28	31	0.866	12.27	31	2.118
83	8	20.45	31	1.037	14.33	31	1.691
84	8	18.39	31	1.076	12.89	31	1.019
85	8	18.23	31	0.713	10.06	24	2.518
86	8	18.81	30	0.875	12.03	31	1.377
87	8	20.01	30	0.549	11.95	30	1.640
88	8	18.64	27	1.186	12.50	29	1.779
89	8	19.20	31	0.965	10.40	31	2.059
68	9	0.00	0	0.000	0.00	0	0.000
69	9	20.48	30	0.779	14.06	30	1.101
70	9	19.03	30	0.879	11.83	30	2.127
71	9	0.00	0	0.000	0.00	0	0.000

PRÓMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : AZAPA

CODIGO: 01310051 9

AÑO	MESES	FROM(MAX)	N DIAS	D. ESTANDAR	FROM(MIN)	N DIAS	D. ESTANDAR
72	9	0.00	0	0.000	0.00	0	0.000
73	9	0.00	0	0.000	0.00	0	0.000
74	9	0.00	0	0.000	0.00	0	0.000
75	9	21.20	29	0.763	11.38	29	1.598
76	9	0.00	0	0.000	0.00	0	0.000
77	9	0.00	0	0.000	0.00	0	0.000
78	9	0.00	0	0.000	0.00	0	0.000
79	9	0.00	0	0.000	0.00	0	0.000
80	9	0.00	0	0.000	0.00	0	0.000
81	9	21.99	30	1.195	12.05	30	2.709
82	9	21.67	30	1.003	13.96	30	1.755
83	9	21.30	30	0.799	14.20	30	1.905
84	9	20.33	30	0.770	13.54	30	1.565
85	9	19.93	30	0.785	13.37	27	1.503
86	9	18.75	27	1.005	12.58	28	1.560
87	9	20.84	29	1.168	11.80	28	1.804
88	9	19.83	30	1.150	12.82	22	2.226
89	9	19.78	30	0.907	10.31	30	2.558
68	10	0.00	0	0.000	0.00	0	0.000
69	10	21.80	31	0.962	14.33	31	1.815
70	10	20.14	31	0.914	12.32	31	2.509
71	10	0.00	0	0.000	0.00	0	0.000
72	10	0.00	0	0.000	0.00	0	0.000
73	10	0.00	0	0.000	0.00	0	0.000
74	10	0.00	0	0.000	0.00	0	0.000
75	10	21.71	31	1.741	12.01	31	2.178
76	10	0.00	0	0.000	0.00	0	0.000
77	10	0.00	0	0.000	0.00	0	0.000
78	10	0.00	0	0.000	0.00	0	0.000
79	10	0.00	0	0.000	0.00	0	0.000
80	10	22.45	31	1.119	12.21	31	2.001
81	10	22.52	31	1.001	11.79	31	2.356
82	10	22.97	30	1.006	14.48	30	1.953
83	10	21.51	31	0.705	13.70	31	2.267
84	10	22.24	31	1.372	15.20	31	1.671
85	10	22.25	29	1.362	13.26	25	2.232
86	10	21.37	31	1.137	12.16	28	2.618
87	10	22.12	31	0.831	13.28	30	1.943
88	10	21.18	30	0.997	14.01	28	1.815
89	10	21.83	31	0.866	11.47	31	2.394
68	11	0.00	0	0.000	0.00	0	0.000
69	11	23.64	30	1.033	16.69	30	1.576
70	11	22.19	30	0.761	12.74	30	2.147
71	11	0.00	0	0.000	0.00	0	0.000
72	11	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : AZAPA

CODIGO: 01310051 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
73	11	0.00	0	0.000	0.00	0	0.000
74	11	0.00	0	0.000	0.00	0	0.000
75	11	20.99	30	1.391	12.54	30	1.950
76	11	0.00	0	0.000	0.00	0	0.000
77	11	0.00	0	0.000	0.00	0	0.000
78	11	0.00	0	0.000	0.00	0	0.000
79	11	0.00	0	0.000	0.00	0	0.000
80	11	0.00	0	0.000	0.00	0	0.000
81	11	24.08	30	0.746	12.89	30	2.347
82	11	25.60	30	0.921	16.70	30	2.079
83	11	23.45	29	0.922	15.92	29	1.949
84	11	24.21	30	1.032	14.67	30	2.021
85	11	23.60	27	0.929	13.36	25	2.332
86	11	23.67	29	0.964	13.80	27	2.231
87	11	24.00	29	0.997	14.65	29	1.949
88	11	23.36	30	0.971	13.16	28	2.379
89	11	0.00	0	0.000	0.00	0	0.000
68	12	28.53	30	0.694	14.60	30	1.355
69	12	25.03	31	1.057	14.91	31	2.123
70	12	23.55	31	0.879	13.56	31	2.061
71	12	0.00	0	0.000	0.00	0	0.000
72	12	0.00	0	0.000	0.00	0	0.000
73	12	0.00	0	0.000	0.00	0	0.000
74	12	0.00	0	0.000	0.00	0	0.000
75	12	25.58	30	1.685	13.56	21	1.844
76	12	0.00	0	0.000	0.00	0	0.000
77	12	0.00	0	0.000	0.00	0	0.000
78	12	0.00	0	0.000	0.00	0	0.000
79	12	0.00	0	0.000	0.00	0	0.000
80	12	26.42	31	1.638	14.47	31	2.715
81	12	25.98	31	1.363	15.94	31	1.779
82	12	28.15	31	1.855	18.97	31	1.742
83	12	26.31	25	1.194	15.34	25	1.641
84	12	25.78	28	0.953	15.56	8	2.531
85	12	25.75	31	1.338	15.98	29	2.246
86	12	26.04	30	1.229	15.39	31	1.967
87	12	25.57	31	0.830	15.05	28	2.429
88	12	25.48	30	1.066	13.94	31	1.640
89	12	25.66	29	1.016	12.90	30	2.119

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : AZAPA

CODIGO: 01310051

9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
68	1	0.00	0	0.000	0.00	0	0.000
69	1	26.24	31	1.276	15.47	31	1.584
70	1	26.87	30	1.774	16.71	29	1.349
71	1	26.52	31	1.179	17.10	31	1.744
72	1	28.07	31	1.123	18.05	31	1.582
73	1	30.66	31	1.602	21.49	31	2.044
74	1	28.23	31	10.669	19.10	31	11.469
75	1	0.00	0	0.000	0.00	0	0.000
76	1	25.72	31	2.662	15.81	31	2.708
77	1	29.61	30	0.974	18.49	29	1.754
78	1	0.00	0	0.000	0.00	0	0.000
79	1	31.07	30	1.879	18.72	29	2.290
80	1	29.39	30	1.974	17.21	29	2.737
81	1	27.75	31	1.556	15.78	31	1.908
82	1	30.54	23	1.354	16.10	24	1.747
83	1	30.96	31	1.605	21.56	31	2.688
84	1	28.01	30	1.412	14.91	30	1.882
85	1	28.52	31	1.316	13.45	31	2.216
86	1	0.00	0	0.000	0.00	0	0.000
87	1	28.39	31	0.916	18.45	31	1.546
88	1	26.62	31	0.913	17.95	31	1.247
89	1	0.00	0	0.000	0.00	0	0.000
68	2	0.00	0	0.000	0.00	0	0.000
69	2	0.00	0	0.000	0.00	0	0.000
70	2	29.04	28	1.489	18.19	28	1.116
71	2	26.84	28	0.939	17.56	27	1.056
72	2	28.48	28	1.216	18.96	28	1.574
73	2	32.11	28	1.179	22.54	28	1.631
74	2	28.48	28	1.216	18.96	28	1.574
75	2	0.00	0	0.000	0.00	0	0.000
76	2	28.02	28	1.020	16.95	28	1.345
77	2	30.40	6	0.648	19.68	6	0.776
78	2	29.66	16	0.938	16.78	17	1.922
79	2	31.71	28	0.959	17.46	28	1.660
80	2	32.45	28	1.826	19.89	28	2.752
81	2	28.91	28	1.149	16.52	28	1.513
82	2	29.04	28	0.937	13.88	28	1.508
83	2	30.20	28	1.180	20.61	28	2.187
84	2	28.44	28	0.968	16.16	28	1.791
85	2	28.55	28	1.406	13.19	28	2.785
86	2	0.00	0	0.000	0.00	0	0.000
87	2	28.16	28	1.123	17.91	28	1.623
88	2	26.88	28	1.145	13.48	28	1.427
89	2	0.00	0	0.000	0.00	0	0.000
68	3	0.00	0	0.000	0.00	0	0.000
69	3	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : AZAPA

COOIBD: 01310051

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ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
70	3	28.30	31	1.230	17.88	31	1.810
71	3	25.83	31	0.707	15.84	29	1.658
72	3	27.49	31	1.068	17.98	31	1.230
73	3	31.14	31	1.317	20.42	31	1.863
74	3	27.49	31	1.068	17.98	31	1.230
75	3	0.00	0	0.000	0.00	0	0.000
76	3	27.32	31	1.039	16.77	31	1.401
77	3	26.88	21	4.181	15.24	20	3.302
78	3	26.12	24	1.810	14.79	22	2.035
79	3	29.58	31	0.626	16.76	31	1.388
80	3	30.24	31	3.064	17.37	31	2.013
81	3	27.02	31	1.955	16.04	31	2.755
82	3	27.27	31	1.404	11.00	31	1.773
83	3	32.43	30	1.299	20.41	29	2.005
84	3	27.03	31	1.347	14.94	29	1.577
85	3	29.17	31	1.542	15.48	31	1.897
86	3	27.24	8	0.637	16.08	6	1.642
87	3	27.49	31	1.506	17.42	31	1.656
88	3	25.94	31	1.465	16.48	31	2.016
89	3	0.00	0	0.000	0.00	0	0.000
68	4	0.00	0	0.000	0.00	0	0.000
69	4	22.90	3	1.493	16.55	2	0.354
70	4	25.67	30	0.758	16.87	30	2.301
71	4	24.92	29	1.904	15.65	28	2.546
72	4	24.34	23	1.008	15.36	21	2.227
73	4	27.34	30	2.642	15.75	30	2.895
74	4	24.34	23	1.008	15.36	21	2.227
75	4	0.00	0	0.000	0.00	0	0.000
76	4	25.77	30	1.690	14.97	30	2.051
77	4	24.14	23	2.332	12.59	23	2.225
78	4	23.15	24	1.719	13.48	23	2.604
79	4	26.60	30	1.310	12.89	30	2.013
80	4	25.78	30	1.449	12.80	30	1.894
81	4	24.02	29	1.610	13.00	28	2.964
82	4	24.50	25	1.733	9.98	24	2.076
83	4	29.28	29	1.001	18.69	30	2.559
84	4	25.19	30	1.300	12.62	30	2.560
85	4	25.63	30	3.142	14.14	30	2.966
86	4	24.40	29	1.080	14.14	28	1.488
87	4	24.55	30	1.451	14.35	30	1.425
88	4	24.33	30	1.705	13.48	30	1.935
89	4	0.00	0	0.000	0.00	0	0.000
68	5	0.00	0	0.000	0.00	0	0.000
69	5	21.94	31	1.282	13.23	31	2.080
70	5	22.85	31	1.916	13.64	31	3.503
71	5	22.14	31	0.913	13.30	31	2.494

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : AZAPA

CODIGO: 01310051

9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
72	5	22.85	31	0.928	15.78	31	2.142
73	5	20.90	30	2.269	11.52	30	2.826
74	5	22.85	31	0.928	15.78	31	2.142
75	5	0.00	0	0.000	0.00	0	0.000
76	5	21.24	31	1.519	13.01	31	2.181
77	5	21.91	31	4.409	10.63	31	2.657
78	5	21.22	31	1.451	10.16	31	1.814
79	5	23.75	30	0.974	12.60	31	2.730
80	5	24.14	28	1.269	11.03	28	2.926
81	5	21.23	30	1.282	9.34	29	1.910
82	5	20.12	30	1.295	7.73	29	3.498
83	5	27.84	29	1.168	19.82	29	2.571
84	5	20.69	31	2.477	11.74	31	4.028
85	5	21.47	31	1.308	10.68	31	2.787
86	5	21.94	31	1.085	12.98	31	2.536
87	5	22.65	31	1.339	12.92	31	2.006
88	5	21.35	31	1.348	12.47	31	1.948
89	5	0.00	0	0.000	0.00	0	0.000
68	6	0.00	0	0.000	0.00	0	0.000
69	6	18.71	30	1.553	12.56	30	2.049
70	6	19.10	30	0.932	11.22	30	2.174
71	6	20.23	30	1.392	12.62	30	2.433
72	6	20.35	30	0.609	13.44	30	1.878
73	6	22.59	30	1.323	12.12	30	3.159
74	6	20.35	30	0.609	13.44	30	1.878
75	6	0.00	0	0.000	0.00	0	0.000
76	6	20.01	25	0.818	13.75	25	1.863
77	6	20.23	27	4.179	11.06	26	2.785
78	6	20.20	30	1.439	10.57	30	2.555
79	6	22.03	30	1.236	11.71	30	2.375
80	6	19.44	27	1.166	9.36	27	2.737
81	6	18.94	30	0.769	8.71	30	2.445
82	6	18.59	30	1.318	7.70	30	2.268
83	6	23.58	30	1.652	14.92	30	2.537
84	6	18.05	29	2.706	10.38	30	2.599
85	6	19.97	30	1.410	11.79	30	3.104
86	6	19.26	30	1.041	9.78	30	2.346
87	6	19.88	30	0.874	12.50	30	1.716
88	6	18.77	30	0.874	9.07	30	2.391
89	6	0.00	0	0.000	0.00	0	0.000
68	7	0.00	0	0.000	0.00	0	0.000
69	7	18.19	26	1.969	11.11	27	2.483
70	7	17.26	31	0.976	9.27	31	2.382
71	7	17.48	31	0.713	9.67	30	2.042
72	7	19.79	31	0.887	14.98	31	1.272
73	7	19.04	30	2.153	11.38	30	2.390

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : AZAPA

CODIGO: 01310051

9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
74	7	19.79	31	0.887	14.98	31	1.272
75	7	17.87	22	0.467	10.24	21	2.223
76	7	19.77	30	1.186	13.66	29	2.602
77	7	19.84	31	1.259	11.45	31	2.464
78	7	19.80	31	1.444	10.28	31	2.075
79	7	21.07	31	1.371	11.84	31	2.427
80	7	23.41	23	2.650	15.73	23	2.497
81	7	17.33	31	0.803	6.05	31	2.370
82	7	18.37	31	0.957	9.51	31	3.400
83	7	23.07	31	1.785	16.37	31	3.533
84	7	17.98	31	0.754	9.83	31	2.657
85	7	18.93	31	0.947	9.35	31	2.893
86	7	18.24	31	1.081	9.22	31	2.134
87	7	19.86	31	1.051	12.33	31	2.215
88	7	17.97	31	0.961	10.33	31	1.654
89	7	0.00	0	0.000	0.00	0	0.000
68	8	0.00	0	0.000	0.00	0	0.000
69	8	0.00	0	0.000	0.00	0	0.000
70	8	19.19	27	0.900	10.92	26	1.985
71	8	13.05	31	2.530	8.68	31	3.352
72	8	20.88	31	0.962	15.06	31	1.942
73	8	19.25	12	3.148	10.82	13	1.592
74	8	20.88	31	0.962	15.06	31	1.942
75	8	18.56	31	0.469	12.04	31	2.159
76	8	19.76	31	1.636	12.76	31	2.916
77	8	18.47	7	1.424	10.86	7	1.679
78	8	19.43	30	1.040	11.35	29	1.321
79	8	21.11	31	0.588	12.61	31	2.043
80	8	0.00	0	0.000	0.00	0	0.000
81	8	18.05	31	1.173	8.83	31	2.405
82	8	18.81	31	1.286	10.97	31	2.608
83	8	21.40	31	2.396	14.43	31	1.601
84	8	18.29	31	1.374	12.59	31	1.229
85	8	18.81	31	1.018	8.97	31	3.005
86	8	18.48	31	1.120	11.76	31	1.104
87	8	19.92	31	0.828	12.14	31	1.707
88	8	19.65	31	1.030	11.81	31	1.672
89	8	0.00	0	0.000	0.00	0	0.000
68	9	0.00	0	0.000	0.00	0	0.000
69	9	19.90	27	0.707	13.38	26	1.813
70	9	21.09	30	1.176	14.00	30	2.521
71	9	15.26	30	2.940	8.37	30	3.760
72	9	21.61	29	1.522	15.96	30	1.306
73	9	21.61	29	1.522	15.96	30	1.306
74	9	21.61	29	1.522	15.96	30	1.306
75	9	21.13	30	0.715	14.97	30	1.259

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : AZAPA

CODIGO: 01310051

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ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
76	9	19.05	30	1.428	13.04	30	1.324
77	9	21.67	24	0.919	14.41	25	1.691
78	9	19.29	24	1.471	10.95	23	1.592
79	9	22.22	29	0.911	13.36	29	2.471
80	9	0.00	0	0.000	0.00	0	0.000
81	9	19.41	30	0.993	9.53	30	2.682
82	9	21.96	30	1.152	12.99	30	2.312
83	9	22.19	30	2.007	13.90	30	2.106
84	9	21.12	30	1.085	13.69	30	2.197
85	9	20.19	30	1.060	13.05	30	1.972
86	9	19.19	30	1.020	11.94	30	1.513
87	9	20.80	30	1.008	12.44	30	1.779
88	9	20.23	30	1.628	11.86	30	1.972
89	9	0.00	0	0.000	0.00	0	0.000
68	10	0.00	0	0.000	0.00	0	0.000
69	10	20.98	31	0.803	13.49	31	1.808
70	10	21.26	30	0.872	14.15	29	2.295
71	10	19.94	31	1.530	12.58	31	1.847
72	10	22.10	30	1.877	14.94	29	1.541
73	10	22.74	10	1.029	12.94	11	2.311
74	10	22.10	30	1.877	14.94	29	1.541
75	10	21.82	31	1.476	13.88	31	3.070
76	10	22.44	31	1.433	15.03	31	2.067
77	10	23.19	16	0.743	13.06	16	2.190
78	10	22.93	31	1.534	12.00	31	2.229
79	10	23.45	31	2.415	14.96	31	2.048
80	10	21.33	27	2.079	9.98	24	2.357
81	10	20.21	31	1.072	8.95	31	2.400
82	10	23.67	31	1.145	14.34	31	1.988
83	10	22.92	31	1.185	13.66	31	2.863
84	10	23.94	31	1.907	16.39	31	2.178
85	10	22.68	31	1.878	13.56	31	2.115
86	10	21.10	31	1.238	12.06	31	2.429
87	10	22.10	31	1.144	13.57	30	1.684
88	10	21.42	31	1.152	13.30	31	1.720
89	10	0.00	0	0.000	0.00	0	0.000
68	11	0.00	0	0.000	0.00	0	0.000
69	11	22.77	30	0.900	15.69	28	1.391
70	11	22.49	30	0.568	13.87	30	2.132
71	11	22.41	30	1.673	13.91	30	2.007
72	11	23.19	19	0.573	17.16	19	1.649
73	11	25.27	24	1.672	15.56	23	2.440
74	11	23.19	19	0.573	17.16	19	1.649
75	11	21.09	30	1.133	12.34	30	1.987
76	11	24.88	30	1.193	15.12	30	2.075
77	11	23.44	30	0.621	15.58	30	2.536

PROMEDIOS MENSUALES DE TERMIGRAMAS

ESTACION : AZAPA

CODIGO: 01310051 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
78	11	24.78	30	4.762	12.70	30	3.003
79	11	23.84	30	1.393	14.11	30	2.467
80	11	0.00	0	0.000	0.00	0	0.000
81	11	21.79	30	0.838	10.87	30	2.544
82	11	27.51	30	1.276	17.10	30	2.716
83	11	24.24	30	1.249	14.93	29	2.098
84	11	26.27	30	1.061	16.33	30	2.609
85	11	22.43	23	1.278	13.82	23	2.681
86	11	23.29	30	1.593	13.70	30	2.218
87	11	24.00	30	1.176	15.09	30	1.987
88	11	23.23	30	1.112	13.09	30	2.180
89	11	0.00	0	0.000	0.00	0	0.000
68	12	26.04	16	0.965	14.66	15	1.876
69	12	24.20	31	1.209	13.71	31	1.733
70	12	24.20	31	1.071	14.51	31	1.782
71	12	24.43	31	1.671	14.70	31	2.084
72	12	27.41	25	1.434	19.15	21	2.446
73	12	23.17	30	1.107	13.05	31	1.799
74	12	27.41	25	1.434	19.15	21	2.446
75	12	25.57	31	1.596	14.48	31	2.369
76	12	26.89	24	1.644	15.75	23	2.370
77	12	26.36	31	1.069	15.26	31	2.057
78	12	25.36	25	5.490	13.28	25	3.364
79	12	26.28	29	1.021	15.64	27	2.131
80	12	24.87	31	1.864	13.21	30	2.500
81	12	23.85	30	0.819	13.58	29	1.956
82	12	30.94	31	1.407	20.55	31	2.188
83	12	24.25	31	2.420	11.59	31	2.619
84	12	26.53	31	1.359	12.67	30	2.438
85	12	21.70	1	0.000	18.45	2	1.061
86	12	25.62	31	1.033	15.40	31	1.824
87	12	25.45	31	0.719	15.85	31	2.308
88	12	24.77	30	1.291	14.22	30	1.806
89	12	0.00	0	0.000	0.00	0	0.000

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1968)

ESTACION: AZAPA

CDD160 : 01310051

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LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1969)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	
1	00	00	00	00	00	00	00	00	00	00	00	00	1	10	00	00	00	00	10	10	00	00	00	00	11	
2	00	00	00	00	00	00	00	00	00	00	00	00	2	10	00	00	00	00	11	00	00	00	00	00	01	00
3	00	00	00	00	00	00	00	00	00	00	00	00	3	10	00	00	00	00	11	00	00	00	00	00	01	00
4	00	00	00	00	00	00	00	00	00	00	00	00	4	10	00	00	00	10	11	00	00	00	00	00	00	00
5	00	00	00	00	00	00	00	00	00	00	00	00	5	10	00	00	00	00	11	00	00	00	00	00	01	01
6	00	00	00	00	00	00	00	00	00	00	00	00	6	10	00	00	00	00	11	00	00	00	00	01	00	00
7	00	00	00	00	00	00	00	00	00	00	00	00	7	10	00	00	00	01	11	00	00	00	00	00	00	01
8	00	00	00	00	00	00	00	00	00	00	00	00	8	10	00	00	00	00	10	10	00	11	00	10	10	
9	00	00	00	00	00	00	00	00	00	00	00	00	9	11	00	00	00	01	11	11	00	11	00	10	00	
10	00	00	00	00	00	00	00	00	00	00	00	00	10	10	00	00	00	00	11	10	00	00	00	10	00	
11	00	00	00	00	00	00	00	00	00	00	00	00	11	10	00	00	00	11	11	01	00	00	00	00	00	
12	00	00	00	00	00	00	00	00	00	00	00	00	12	01	00	00	00	00	00	10	00	00	00	00	00	00
13	00	00	00	00	00	00	00	00	00	00	00	00	13	10	00	00	00	00	01	10	00	01	00	00	00	00
14	00	00	00	00	00	00	00	00	00	00	00	00	14	10	00	00	00	11	01	00	00	01	00	00	00	00
15	00	00	00	00	00	00	00	00	00	00	00	00	15	10	00	00	00	00	01	00	00	10	01	00	00	00
16	00	00	00	00	00	00	00	00	00	00	00	00	16	10	00	00	00	00	10	01	00	00	00	00	00	00
17	00	00	00	00	00	00	00	00	00	00	00	00	17	10	00	00	00	00	00	11	00	00	00	00	00	10
18	00	00	00	00	00	00	00	00	00	00	00	10	18	00	00	00	00	11	00	11	00	00	00	00	00	00
19	00	00	00	00	00	00	00	00	00	00	00	10	19	10	00	00	00	10	00	01	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	10	20	10	00	00	00	01	10	00	00	00	00	00	00	10
21	00	00	00	00	00	00	00	00	00	00	00	11	21	10	00	00	00	00	01	01	00	00	00	00	00	01
22	00	00	00	00	00	00	00	00	00	00	00	10	22	10	00	00	00	00	01	11	00	00	00	00	00	01
23	00	00	00	00	00	00	00	00	00	00	00	11	23	00	00	00	00	11	10	10	00	00	00	00	00	11
24	00	00	00	00	00	00	00	00	00	00	00	10	24	10	00	00	00	01	00	01	00	00	00	00	00	10
25	00	00	00	00	00	00	00	00	00	00	00	00	25	10	00	00	00	01	10	11	00	00	00	00	00	00
26	00	00	00	00	00	00	00	00	00	00	00	01	26	10	00	00	00	01	10	11	00	00	00	00	00	10
27	00	00	00	00	00	00	00	00	00	00	00	10	27	10	00	00	00	00	00	00	00	00	00	01	00	01
28	00	00	00	00	00	00	00	00	00	00	00	10	28	10	00	00	00	10	01	00	00	00	00	01	00	00
29	00	00	00	00	00	00	00	00	00	00	00	10	29	10	00	00	00	10	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	10	30	10	00	00	00	10	00	00	00	00	00	00	01	00
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00	00	00	00

(11) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1970)
 ESTACION: AZAPA

CODIGO : 01310051 9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1971)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	01	11	00	01	00	00	10	10	11	00	00	1	00	00	00	01	01	11	10	00	00	00	00	
2	01	00	10	01	00	00	00	01	00	11	01	00	2	00	10	01	11	00	01	11	00	00	00	00	00
3	00	10	00	00	00	01	01	01	01	11	00	00	3	01	00	10	10	11	01	00	01	00	00	00	00
4	00	10	00	00	00	00	00	00	01	11	10	00	4	00	00	01	00	00	10	00	01	00	00	00	00
5	11	00	00	01	01	01	00	00	11	11	00	00	5	00	00	00	01	00	01	01	00	00	00	00	00
6	11	00	00	00	10	10	11	01	00	01	10	01	6	01	00	00	00	00	01	00	00	00	00	00	00
7	00	01	00	10	00	11	00	11	01	11	00	00	7	00	10	00	00	01	00	00	00	00	00	00	00
8	00	10	10	10	11	00	01	01	11	11	00	00	8	00	01	00	00	01	11	10	00	00	00	00	00
9	00	01	00	01	01	00	00	00	11	00	00	00	9	00	00	00	00	01	01	10	00	00	00	00	00
10	10	00	00	01	01	00	01	00	11	11	00	00	10	00	01	00	00	11	10	00	10	00	00	00	00
11	11	00	01	00	00	00	01	00	01	00	01	00	11	01	00	00	01	00	11	01	00	00	00	00	00
12	00	00	01	01	00	00	01	00	11	10	00	00	12	00	00	00	00	01	01	00	00	00	00	00	00
13	00	00	00	10	10	00	01	00	11	11	00	01	13	00	00	10	11	01	01	10	00	00	00	00	00
14	00	00	00	01	00	00	01	01	10	01	00	01	14	10	00	00	00	01	10	10	00	00	00	00	00
15	10	00	01	00	00	00	00	01	11	00	00	00	15	01	00	00	11	00	01	00	00	00	00	00	00
16	10	11	01	00	00	01	00	01	11	00	00	01	16	01	00	00	00	10	01	00	00	00	00	00	00
17	00	10	00	11	01	00	00	01	01	00	00	00	17	01	00	00	01	00	00	00	01	00	00	00	00
18	00	11	00	00	00	00	01	00	10	00	01	00	18	00	00	00	00	01	01	00	11	00	00	00	00
19	00	00	00	01	01	00	01	00	11	00	00	00	19	00	00	00	10	00	11	00	10	00	00	00	00
20	00	00	01	00	11	00	01	00	01	00	00	00	20	00	00	01	01	10	01	00	10	00	00	00	00
21	10	00	01	00	00	01	00	00	01	01	00	11	21	00	01	01	00	01	00	00	11	00	00	00	00
22	00	10	01	00	01	00	00	00	11	00	01	10	22	01	00	01	01	11	11	00	11	00	00	00	00
23	00	01	01	00	11	00	00	00	11	00	00	00	23	00	10	10	01	10	01	00	11	00	00	00	00
24	00	10	00	01	01	00	01	00	10	00	00	00	24	00	00	11	01	00	10	01	11	00	00	00	00
25	00	10	10	11	01	01	01	10	10	10	01	00	25	00	00	00	01	01	01	00	11	00	00	00	00
26	11	00	00	00	01	01	11	01	11	01	00	00	26	01	01	00	11	01	00	00	11	00	00	00	00
27	00	00	01	01	10	00	10	00	11	00	00	00	27	01	00	00	01	11	00	00	11	00	00	00	00
28	01	10	11	01	00	00	01	01	11	00	00	01	28	00	01	01	01	01	10	00	11	00	00	00	00
29	00	00	01	00	00	01	00	00	11	00	00	00	29	00	00	00	11	11	01	00	11	00	00	00	00
30	10	00	01	00	00	00	00	00	11	00	00	00	30	00	00	10	01	10	11	10	11	00	00	00	00
31	01	00	00	00	00	00	00	00	00	00	00	00	31	00	00	11	00	10	00	10	11	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1972)

ESTACION: AZAPA

CODIGO : 01310051

9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1973)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00		
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00		
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00		
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29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1974)

ESTACION: AZAPA

CODIGO : 01310051

9

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00
2	00	00	00	00	00	00	00	00	00	00	00	00
3	00	00	00	00	00	00	00	00	00	00	00	00
4	00	00	00	00	00	00	00	00	00	00	00	00
5	00	00	00	00	00	00	00	00	00	00	00	00
6	00	00	00	00	00	00	00	00	00	00	00	00
7	00	00	00	00	00	00	00	00	00	00	00	00
8	00	00	00	00	00	00	00	00	00	00	00	00
9	00	00	00	00	00	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00	00	00	00	00	00
11	00	00	00	00	00	00	00	00	00	00	00	00
12	00	00	00	00	00	00	00	00	00	00	00	00
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14	00	00	00	00	00	00	00	00	00	00	00	00
15	00	00	00	00	00	00	00	00	00	00	00	00
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18	00	00	00	00	00	00	00	00	00	00	00	00
19	00	00	00	00	00	00	00	00	00	00	00	00
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21	00	00	00	00	00	00	00	00	00	00	00	00
22	00	00	00	00	00	00	00	00	00	00	00	00
23	00	00	00	00	00	00	00	00	00	00	00	00
24	00	00	00	00	00	00	00	00	00	00	00	00
25	00	00	00	00	00	00	00	00	00	00	00	00
26	00	00	00	00	00	00	00	00	00	00	00	00
27	00	00	00	00	00	00	00	00	00	00	00	00
28	00	00	00	00	00	00	00	00	00	00	00	00
29	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00
31	00	00	00	00	00	00	00	00	00	00	00	00

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1975)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00
2	00	00	00	00	00	00	00	00	01	01	00	01
3	00	00	00	00	00	00	00	00	01	01	01	00
4	00	00	00	00	00	00	00	00	01	01	00	11
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7	00	00	00	00	00	00	00	00	00	00	00	00
8	00	00	00	00	00	00	00	00	01	01	01	00
9	00	00	00	00	00	00	00	00	01	01	01	00
10	00	00	00	00	00	00	00	00	01	01	00	00
11	00	00	00	00	00	00	00	00	01	01	00	00
12	00	00	00	00	00	00	00	00	01	11	10	00
13	00	00	00	00	00	00	00	00	01	01	00	00
14	00	00	00	00	00	00	00	00	01	01	01	00
15	00	00	00	00	00	00	00	00	01	01	00	01
16	00	00	00	00	00	00	00	00	11	01	01	00
17	00	00	00	00	00	00	00	00	01	01	01	00
18	00	00	00	00	00	00	00	00	01	01	00	00
19	00	00	00	00	00	00	00	00	01	01	01	00
20	00	00	00	00	00	00	00	00	01	10	00	01
21	00	00	00	00	00	00	00	00	01	01	01	00
22	00	00	00	00	00	00	00	00	01	00	00	01
23	00	00	00	00	00	00	00	00	01	01	00	00
24	00	00	00	00	00	00	00	00	01	01	01	00
25	00	00	00	00	00	00	00	00	01	00	01	00
26	00	00	00	00	00	00	00	00	01	00	00	00
27	00	00	00	00	00	00	00	00	01	00	01	00
28	00	00	00	00	00	00	00	00	01	00	01	00
29	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	01	01	00	00
31	00	00	00	00	00	00	00	00	00	00	00	00

{1 1} : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1976)

ESTACION: AZAPA

CODIGO : 01310051

9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1977)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
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	2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
3	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 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
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5	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
6	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	6	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
7	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	7	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
8	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	8	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
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15	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	15	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
16	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	16	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
17	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	17	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
18	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	18	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
19	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	19	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
20	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	20	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
21	1 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	21	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
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23	0 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	23	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
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25	1 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	25	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
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27	1 1	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	27	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
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31	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	31	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1978)
 ESTACION: AZAPA

CODIGO : 01310051 9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1979)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
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(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1980)

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1981)

ESTACION: AZAPA

CODIGO : 01310051

9

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(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1982)

ESTACION: AZAPA

CODIGO : 01310051

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LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1983)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
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(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1984)

ESTACION: AZAPA

CODIGO : 01310051

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LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1985)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
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(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1986)

ESTACION: AZAPA

CODIGO : 01310051

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LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1987)

DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
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18	00	00	00	00	01	00	00	10	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	00	00	00	00	10	00	00	00	19	00	00	00	00	00	00	00	01	00	00		
20	00	00	00	00	00	00	01	00	00	00	00	10	20	01	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	01	01	00	00	00	00		
22	00	00	00	00	01	00	00	00	00	00	00	00	22	00	00	01	00	00	00	00	00	00	00		
23	00	00	00	00	00	01	00	00	00	01	00	00	23	00	00	00	00	01	00	00	00	00	00		
24	00	00	00	00	00	01	00	00	00	00	00	00	24	00	00	00	00	00	01	00	00	01	01		
25	00	00	00	00	00	00	00	00	00	00	10	00	25	00	00	01	00	00	00	00	00	00	00		
26	00	00	00	00	00	00	00	00	00	00	01	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	00	00	00	00	01	00	00	00	00	00	00	27	00	00	01	00	00	00	00	00	00	00		
28	00	00	00	10	00	00	00	00	01	00	00	00	28	00	00	00	00	00	00	00	00	00	01		
29	00	00	00	00	01	01	00	00	00	00	00	00	29	00	00	00	01	01	00	00	10	00	00		
30	00	00	00	00	00	00	00	00	00	01	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	01	00	00	00	00	00	00	00	31	00	00	00	00	00	01	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1988)

ESTACION: AZAPA

CODIGO : 01310051

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LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1989)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	01	00	00	00	00	11	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	01	01	10	00	01	01	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	01	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	10	00	01	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	00	00	00	01	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	00	00	01	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	00	00	00	00	00	01	00	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	00	00	00	00	00	01	00	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	01	00	00	01	00	00	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	00	00	00	01	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	00	00	01	00	00	00	00	00	10	12	00	00	00	00	00	00	00	00	00	00		
13	00	00	00	00	01	01	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	10	00	00	00	00	00	01	00	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	00	00	01	00	01	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	10	00	00	01	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	01	00	01	00	10	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	11	00	00	00	01	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	00	01	00	00	00	00	01	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	10	00	00	01	01	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	00	01	00	01	00	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	00	00	01	00	00	00	10	00	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	11	00	10	00	01	00	10	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00		
24	00	00	00	11	00	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	00	00	00	01	00	00	01	00	00	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	00	00	00	01	01	00	01	00	00	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	00	00	00	00	01	00	00	00	01	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	00	00	00	00	01	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00		
29	00	00	01	00	00	00	00	00	00	01	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	00	00	00	01	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	01	00	01	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.9 Estación Universidad del Norte

3.9.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur $18^{\circ} 30'$ y Longitud Oeste $70^{\circ} 20'$ a una altura de 27 msnm.

Posee estadística de lecturas directas a partir de Julio de 1975 y registro termográficos desde Mayo de 1975.

3.9.2 Información existente

La tabla 22 muestra la información existente de la estación de lecturas directas, la que totaliza 63 meses. La tabla 23 muestra la información existente de termogramas la que totaliza 114 meses.

3.9.3 Información traducida

En esta estación existe un periodo de registros termográficos previamente incorporada al BNA por la Dirección General de Aguas que va desde Mayo de 1975 a Noviembre de 1984, con excepción de Febrero 1978, Agosto, Septiembre y Noviembre 1980 y Marzo a Septiembre de 1982 (104 meses). Por lo tanto la traducción por parte del consultor abarca 63 meses de lecturas directas y 10 meses de registros termográficos.

3.9.4 Validación

Se ha efectuado una entre las lecturas del higrómetro y las lecturas directas en el periodo que les es común, usando el periodo total de información existente.

Los factores de corrección aplicados a los termogramas se muestran en la tabla 24.

Además se ha comparado las lecturas directas con los valores de termogramas traducidos con anterioridad por la DGA, en el periodo anterior a Diciembre 1984, con lo cual se han eliminado los valores de lecturas directas que al compararlos con los valores de los termogramas previamente ingresados por la DGA, dan una diferencia mayor a ± 1.9 .

Después de aplicadas los factores de corrección mediante un proceso computacional se ha descartado todos los valores de Lecturas directas máximas y mínimas fuera del rango ± 1.9 . Se incluye un listado con el detalle de los valores eliminados.

Se incluye un listado de los promedios mensuales y desviaciones estándar para las lecturas directas y termográficas en todo el periodo.

ESTACION UNIVERSIDAD DEL NORTE

TABLA 22

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
1/7/75	31/9/75	1/7/75	31/9/75
1/11/75	31/12/75	1/11/75	31/12/75
13/5/80	11/7/80	13/5/80	11/7/80
13/7/80	31/7/80	13/7/80	31/7/80
1/10/80	17/10/80	1/10/80	17/10/80
20/10/80	31/10/80	20/10/80	31/10/80
1/12/80	5/12/80	1/12/80	5/12/80
7/12/80	12/12/80	7/12/80	7/12/80
15/12/80	19/12/80	9/12/80	12/12/80
21/12/80	23/12/80	15/12/80	19/12/80
26/12/80	31/12/80	22/12/80	24/12/80
2/1/81	16/1/81	26/12/80	27/12/80
18/1/81	13/2/81	29/12/80	31/12/80
15/2/81	20/2/81	2/1/81	16/1/81
23/2/81	1/5/81	18/1/81	31/1/81
4/5/81	16/5/81	2/2/81	6/2/81
18/5/81	27/6/81	9/2/81	13/2/81
30/6/81	30/10/81	16/2/81	20/2/81
2/11/81	6/11/81	23/2/81	3/4/81
9/11/81	25/11/81	5/4/81	16/4/81
27/11/81	27/11/81	20/4/81	24/4/81
30/11/81	31/12/81	26/4/81	30/4/81
4/1/82	27/1/82	4/5/81	16/5/81
5/10/82	25/11/82	18/5/81	27/5/81
27/11/82	29/12/82	30/6/81	30/10/81
2/1/83	14/1/83	2/11/81	6/11/81
17/1/83	21/1/83	9/11/81	27/11/81
24/1/83	28/1/83	30/11/81	30/11/81
30/1/83	4/3/83	1/12/81	31/12/81
6/3/83	24/3/83	4/12/81	27/1/82
27/3/83	31/3/83	5/10/82	19/12/82
3/4/83	7/4/83	21/12/82	29/12/82
10/4/83	15/4/83	2/1/83	15/1/83
17/4/83	21/4/83	17/1/83	21/1/83
24/4/83	28/4/83	24/1/83	28/1/83
1/5/83	5/5/83	30/1/83	4/3/83
8/5/83	12/5/83	6/3/83	24/3/83
15/5/83	19/5/83	27/3/83	31/3/83
22/5/83	26/5/83	3/4/83	7/4/83
29/5/83	2/6/83	10/4/83	15/4/83
5/3/83	9/6/83	17/4/83	21/4/83
20/6/83	23/6/83	24/4/83	28/4/83
26/6/83	30/6/83	1/5/83	5/5/83

TABLA 22 (CONTINUACION)

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
3/7/83	7/7/83	8/5/83	12/5/83
10/7/83	15/7/83	15/5/83	19/5/83
18/7/83	21/7/83	22/5/83	26/5/83
24/7/83	28/7/83	29/5/83	2/6/83
31/7/83	4/8/83	5/6/83	9/6/83
7/8/83	11/8/83	20/6/83	23/6/83
14/8/83	14/8/83	26/6/83	30/6/83
18/8/83	19/8/83	3/7/83	7/7/83
22/8/83	25/8/83	10/7/83	15/7/83
28/8/83	1/9/83	18/7/83	21/7/83
4/9/83	8/9/83	24/7/83	28/7/83
11/9/83	15/9/83	31/7/83	4/8/83
19/9/83	22/9/83	7/8/83	11/8/83
25/9/83	30/4/85	14/8/83	14/8/83
1/6/85	30/6/85	18/8/83	19/8/83
		22/8/83	25/8/83
		28/8/83	1/9/83
		4/9/83	8/9/83
		11/9/83	15/9/83
		19/9/83	22/9/83
		25/9/83	30/4/85
		1/6/85	30/6/85

ESTACION UNIVERSIDAD DEL NORTE

TABLA 23

TERMÓGRAMAS

DESDE	HASTA
1/5/75	19/5/75
26/5/75	4/8/75
11/8/75	18/8/75
25/8/75	22/12/75
29/12/75	15/3/76
22/3/76	24/5/76
1/6/76	20/9/76
27/9/76	20/6/77
22/6/77	30/7/77
8/8/77	12/12/77
19/12/77	24/1/78
25/1/78	3/1/79
8/1/79	11/6/79
12/6/79	7/4/80
28/4/80	3/11/80
1/12/80	1/2/82
4/10/82	1/11/82
2/11/82	30/5/83
6/6/83	19/9/83
20/9/83	30/4/84
2/5/84	13/5/84
14/5/84	20/8/84
24/8/84	18/2/85
25/2/85	29/4/85
3/6/85	5/6/85
10/6/85	1/7/85

TABLA 24

FACTORES DE CORRECCION

DESDE	HASTA	FC
03 12 84	10 12 84	-1.0
28 01 85	11 02 85	-2.0
11 02 85	18 02 85	-1.0

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : UNIVERSIDAD DEL NORTE CODIGO: 01310053 5

ANO	MESES	PROM(MAX)	N DIAS	D.ESTANDARD	PROM(MIN)	N DIAS	D.ESTANDARD
75	1	0.00	0	0.000	0.00	0	0.000
76	1	0.00	0	0.000	0.00	0	0.000
77	1	0.00	0	0.000	0.00	0	0.000
78	1	0.00	0	0.000	0.00	0	0.000
79	1	0.00	0	0.000	0.00	0	0.000
80	1	0.00	0	0.000	0.00	0	0.000
81	1	26.53	28	0.663	18.77	26	1.200
82	1	26.48	24	0.713	18.36	24	1.312
83	1	28.89	21	0.715	24.01	22	0.919
84	1	26.41	29	0.575	19.96	30	0.841
85	1	25.99	30	0.776	18.31	31	0.842
75	2	0.00	0	0.000	0.00	0	0.000
76	2	0.00	0	0.000	0.00	0	0.000
77	2	0.00	0	0.000	0.00	0	0.000
78	2	0.00	0	0.000	0.00	0	0.000
79	2	0.00	0	0.000	0.00	0	0.000
80	2	0.00	0	0.000	0.00	0	0.000
81	2	26.92	24	0.927	18.94	20	1.080
82	2	0.00	0	0.000	0.00	0	0.000
83	2	29.30	28	0.509	23.68	28	0.945
84	2	26.52	26	0.622	19.60	13	0.577
85	2	26.39	27	0.780	18.88	25	0.858
75	3	0.00	0	0.000	0.00	0	0.000
76	3	0.00	0	0.000	0.00	0	0.000
77	3	0.00	0	0.000	0.00	0	0.000
78	3	0.00	0	0.000	0.00	0	0.000
79	3	0.00	0	0.000	0.00	0	0.000
80	3	0.00	0	0.000	0.00	0	0.000
81	3	26.60	29	1.163	19.25	29	1.779
82	3	0.00	0	0.000	0.00	0	0.000
83	3	28.93	27	0.973	22.60	25	1.152
84	3	25.48	29	0.542	19.02	23	1.127
85	3	26.78	30	1.117	18.94	30	1.061
75	4	0.00	0	0.000	0.00	0	0.000
76	4	0.00	0	0.000	0.00	0	0.000
77	4	0.00	0	0.000	0.00	0	0.000
78	4	0.00	0	0.000	0.00	0	0.000
79	4	0.00	0	0.000	0.00	0	0.000
80	4	0.00	0	0.000	0.00	0	0.000
81	4	24.83	20	0.837	18.63	13	1.419
82	4	0.00	0	0.000	0.00	0	0.000
83	4	26.86	16	0.550	20.69	13	1.311
84	4	24.29	22	1.093	17.44	22	2.010
85	4	23.74	30	1.067	17.00	21	0.774

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : UNIVERSIDAD DEL NORTE CODIGO: 01310053 5

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
75	5	0.00	0	0.000	0.00	0	0.000
76	5	0.00	0	0.000	0.00	0	0.000
77	5	0.00	0	0.000	0.00	0	0.000
78	5	0.00	0	0.000	0.00	0	0.000
79	5	0.00	0	0.000	0.00	0	0.000
80	5	22.91	16	0.571	15.70	11	2.228
81	5	22.12	28	1.137	14.71	23	1.739
82	5	0.00	0	0.000	0.00	0	0.000
83	5	25.60	14	0.451	20.93	12	0.462
84	5	21.41	28	0.905	16.49	24	1.435
85	5	0.00	0	0.000	0.00	0	0.000
75	6	0.00	0	0.000	0.00	0	0.000
76	6	0.00	0	0.000	0.00	0	0.000
77	6	0.00	0	0.000	0.00	0	0.000
78	6	0.00	0	0.000	0.00	0	0.000
79	6	0.00	0	0.000	0.00	0	0.000
80	6	20.90	29	0.972	14.55	26	2.181
81	6	20.39	28	0.662	14.47	26	2.198
82	6	0.00	0	0.000	0.00	0	0.000
83	6	23.70	16	1.148	18.52	5	1.879
84	6	19.73	30	1.099	14.96	27	1.297
85	6	20.60	26	0.835	15.77	24	1.526
75	7	18.35	24	0.479	12.89	22	1.211
76	7	0.00	0	0.000	0.00	0	0.000
77	7	0.00	0	0.000	0.00	0	0.000
78	7	0.00	0	0.000	0.00	0	0.000
79	7	0.00	0	0.000	0.00	0	0.000
80	7	20.09	29	0.624	15.56	29	1.483
81	7	18.42	31	1.033	12.07	28	2.051
82	7	0.00	0	0.000	0.00	0	0.000
83	7	22.16	17	0.611	16.85	11	1.431
84	7	19.41	31	0.572	14.18	26	1.321
85	7	0.00	0	0.000	0.00	0	0.000
75	8	18.73	29	0.491	13.38	29	1.386
76	8	0.00	0	0.000	0.00	0	0.000
77	8	0.00	0	0.000	0.00	0	0.000
78	8	0.00	0	0.000	0.00	0	0.000
79	8	0.00	0	0.000	0.00	0	0.000
80	8	0.00	0	0.000	0.00	0	0.000
81	8	19.21	30	0.764	14.11	30	1.647
82	8	0.00	0	0.000	0.00	0	0.000
83	8	21.17	19	0.790	16.80	19	1.110
84	8	19.16	26	0.729	15.39	28	0.658
85	8	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : UNIVERSIDAD DEL NORTE

CODIGO: 01310053

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anio	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
75	9	19.42	21	0.699	14.10	23	0.452
76	9	0.00	0	0.000	0.00	0	0.000
77	9	0.00	0	0.000	0.00	0	0.000
78	9	0.00	0	0.000	0.00	0	0.000
79	9	0.00	0	0.000	0.00	0	0.000
80	9	0.00	0	0.000	0.00	0	0.000
81	9	20.20	30	0.627	14.63	29	1.861
82	9	0.00	0	0.000	0.00	0	0.000
83	9	20.97	20	0.726	16.55	13	0.376
84	9	20.64	26	0.904	16.29	19	0.746
85	9	0.00	0	0.000	0.00	0	0.000
75	10	0.00	0	0.000	0.00	0	0.000
76	10	0.00	0	0.000	0.00	0	0.000
77	10	0.00	0	0.000	0.00	0	0.000
78	10	0.00	0	0.000	0.00	0	0.000
79	10	0.00	0	0.000	0.00	0	0.000
80	10	21.44	26	1.088	14.86	20	1.260
81	10	21.05	30	0.788	14.01	29	2.005
82	10	23.15	26	0.629	17.42	26	1.022
83	10	21.31	31	0.834	16.54	24	1.177
84	10	22.26	19	0.873	18.06	21	1.073
85	10	0.00	0	0.000	0.00	0	0.000
75	11	0.00	0	0.000	12.74	22	1.674
76	11	0.00	0	0.000	0.00	0	0.000
77	11	0.00	0	0.000	0.00	0	0.000
78	11	0.00	0	0.000	0.00	0	0.000
79	11	0.00	0	0.000	0.00	0	0.000
80	11	0.00	0	0.000	0.00	0	0.000
81	11	23.11	24	0.974	15.88	25	2.201
82	11	25.13	28	0.751	18.79	30	1.165
83	11	23.04	29	0.654	17.84	22	1.008
84	11	23.35	27	0.662	17.22	27	1.218
85	11	0.00	0	0.000	0.00	0	0.000
75	12	26.50	21	1.577	16.63	24	1.832
76	12	0.00	0	0.000	0.00	0	0.000
77	12	0.00	0	0.000	0.00	0	0.000
78	12	0.00	0	0.000	0.00	0	0.000
79	12	0.00	0	0.000	0.00	0	0.000
80	12	24.72	25	1.021	16.68	21	1.995
81	12	25.25	30	0.519	18.11	30	1.248
82	12	26.98	29	0.880	20.85	26	1.018
83	12	25.10	31	0.932	18.83	24	1.152
84	12	24.85	31	0.808	17.46	24	0.876
85	12	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE TERMOGRAMAS
 ESTACION : UNIVERSIDAD DEL NORTE CODIGO: 01310053 5

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
75	1	0.00	0	0.000	0.00	0	0.000
76	1	25.62	31	1.431	17.60	31	1.996
77	1	28.09	28	1.131	19.54	28	1.926
78	1	27.00	31	1.029	18.17	31	1.323
79	1	27.59	25	1.218	19.32	24	1.145
80	1	25.52	31	1.014	17.33	31	1.652
81	1	25.84	30	0.716	19.39	31	1.291
82	1	26.13	31	0.753	18.32	31	1.432
83	1	27.74	31	0.820	23.81	31	0.796
84	1	26.08	31	0.789	20.60	31	1.158
85	1	25.80	31	0.897	18.56	31	0.882
75	2	0.00	0	0.000	0.00	0	0.000
76	2	25.81	28	1.244	17.54	28	1.228
77	2	27.96	28	1.061	19.08	28	1.623
78	2	0.00	0	0.000	0.00	0	0.000
79	2	27.43	28	0.889	18.27	28	1.387
80	2	27.04	28	0.746	18.60	28	1.406
81	2	26.49	28	0.822	19.76	28	0.957
82	2	26.70	2	0.141	19.50	1	0.000
83	2	28.67	28	0.645	24.23	28	0.937
84	2	27.20	28	1.106	21.29	28	1.049
85	2	25.98	21	1.138	19.20	21	1.265
75	3	0.00	0	0.000	0.00	0	0.000
76	3	24.97	24	1.313	16.61	23	1.469
77	3	27.77	25	0.988	18.43	25	0.884
78	3	25.97	31	1.628	17.34	31	1.659
79	3	27.22	31	0.878	18.91	31	1.054
80	3	26.90	31	1.068	18.50	31	1.342
81	3	26.13	30	1.301	19.60	31	1.663
82	3	0.00	0	0.000	0.00	0	0.000
83	3	28.43	31	1.169	23.27	31	1.274
84	3	25.62	30	0.993	20.09	31	0.773
85	3	26.28	31	1.035	19.23	31	1.284
75	4	0.00	0	0.000	0.00	0	0.000
76	4	23.26	30	1.726	14.69	30	1.851
77	4	25.29	28	1.233	15.91	26	1.433
78	4	24.16	25	0.830	17.00	30	1.687
79	4	25.08	30	1.505	15.67	30	1.456
80	4	26.08	9	0.978	17.70	8	0.532
81	4	25.28	29	1.051	18.87	29	1.668
82	4	0.00	0	0.000	0.00	0	0.000
83	4	26.69	29	1.240	21.30	29	1.188
84	4	23.93	29	1.947	18.22	28	1.997
85	4	23.64	28	1.013	17.65	29	1.148

PROMEDIOS MENSUALES DE TERMOGRAMAS
 ESTACION : UNIVERSIDAD DEL NORTE CODIGO: 01310053 5

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
75	5	22.36	24	2.263	16.41	22	2.008
76	5	20.34	23	1.141	14.10	23	1.351
77	5	23.12	30	1.279	14.54	29	1.565
78	5	22.63	31	1.149	15.24	31	1.629
79	5	22.56	31	0.505	15.71	31	1.933
80	5	22.83	26	1.111	15.53	24	1.674
81	5	21.95	27	1.320	15.22	27	1.540
82	5	0.00	0	0.000	0.00	0	0.000
83	5	26.47	28	1.466	21.95	28	1.167
84	5	21.09	29	1.141	16.87	29	1.587
85	5	0.00	0	0.000	0.00	0	0.000
75	6	19.00	30	1.642	13.25	30	1.913
76	6	19.07	30	1.123	14.41	29	0.944
77	6	20.66	28	0.691	13.68	27	1.782
78	6	20.21	30	0.806	14.88	30	1.770
79	6	20.37	24	1.590	14.76	23	1.946
80	6	20.08	30	0.906	14.68	30	1.896
81	6	20.09	29	0.751	14.78	27	1.692
82	6	0.00	0	0.000	0.00	0	0.000
83	6	24.74	24	1.018	21.15	24	1.125
84	6	19.10	27	0.823	15.36	27	1.243
85	6	19.75	22	1.069	15.18	21	1.681
75	7	17.90	24	1.411	12.48	23	1.506
76	7	17.98	31	0.837	13.71	31	0.986
77	7	21.15	29	0.960	14.14	27	1.865
78	7	19.14	31	0.616	15.98	31	1.274
79	7	18.79	31	0.888	14.31	29	1.485
80	7	19.39	25	0.724	15.96	23	1.216
81	7	18.15	31	1.051	12.27	31	1.799
82	7	0.00	0	0.000	0.00	0	0.000
83	7	21.95	30	1.186	18.06	30	1.672
84	7	18.91	31	0.573	14.68	30	1.351
85	7	0.00	0	0.000	0.00	0	0.000
75	8	17.18	16	0.740	12.36	14	0.814
76	8	18.57	31	0.918	13.06	31	1.682
77	8	20.50	23	0.980	14.72	21	1.607
78	8	18.87	31	0.835	14.63	31	1.061
79	8	19.12	31	1.149	14.70	29	1.651
80	8	0.00	0	0.000	0.00	0	0.000
81	8	19.31	31	1.220	14.10	31	1.939
82	8	0.00	0	0.000	0.00	0	0.000
83	8	20.09	24	0.880	17.01	23	1.003
84	8	19.06	26	0.872	16.22	26	0.468
85	8	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE TERMOGRAMAS
 ESTACION : UNIVERSIDAD DEL NORTE CODIGO: 01310053 5

anio	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
75	9	17.84	30	0.605	12.37	29	0.594
76	9	18.86	29	0.991	13.15	29	1.969
77	9	20.42	30	0.717	14.76	30	1.305
78	9	19.43	30	1.174	14.17	30	1.146
79	9	20.57	30	0.772	15.39	30	1.541
80	9	0.00	0	0.000	0.00	0	0.000
81	9	20.07	30	0.599	14.69	30	1.807
82	9	0.00	0	0.000	0.00	0	0.000
83	9	20.99	29	0.901	17.33	30	0.856
84	9	21.38	29	0.572	17.93	27	0.901
85	9	0.00	0	0.000	0.00	0	0.000
75	10	19.81	31	1.163	12.72	31	1.769
76	10	21.15	29	0.693	15.16	27	1.299
77	10	22.25	31	0.943	15.90	31	1.331
78	10	21.18	31	1.246	15.11	31	1.407
79	10	21.18	31	0.797	16.01	31	1.255
80	10	20.75	30	1.318	15.03	29	1.291
81	10	20.73	30	0.736	14.00	29	1.943
82	10	22.53	26	1.027	17.14	25	1.085
83	10	21.57	30	0.721	17.47	27	1.509
84	10	21.80	30	1.033	18.46	28	0.605
85	10	0.00	0	0.000	0.00	0	0.000
75	11	22.00	30	1.146	13.91	30	1.557
76	11	22.66	29	0.900	15.73	28	1.774
77	11	24.85	30	0.617	17.24	30	1.657
78	11	24.50	30	1.048	17.04	30	1.785
79	11	23.19	30	1.136	16.59	30	1.780
80	11	0.00	0	0.000	0.00	0	0.000
81	11	22.42	25	0.920	15.43	24	2.174
82	11	24.70	26	0.906	19.36	25	1.532
83	11	23.11	30	0.812	18.85	30	1.128
84	11	22.60	30	0.581	17.47	30	1.217
85	11	0.00	0	0.000	0.00	0	0.000
75	12	24.25	24	1.701	14.99	23	1.814
76	12	25.18	31	1.801	16.98	31	1.937
77	12	25.15	24	0.443	17.06	23	1.429
78	12	25.47	30	0.958	16.94	31	1.261
79	12	25.11	23	1.287	16.95	23	1.344
80	12	24.05	31	1.083	17.52	30	1.734
81	12	24.88	30	0.589	18.08	29	1.211
82	12	26.50	31	0.957	21.55	31	0.883
83	12	24.80	31	1.085	19.33	31	1.343
84	12	24.61	31	0.766	18.06	31	1.049
85	12	0.00	0	0.000	0.00	0	0.000

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1975)
 ESTACION: UNIVERSIDAD DEL NORTE CDD160 : 01310053

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1976)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	10	00	00	10	10	1	00	00	00	00	00	00	00	00	00	00	00	
2	00	00	00	00	00	00	00	00	00	00	00	11	2	00	00	00	00	00	00	00	00	00	00	00	
3	00	00	00	00	00	00	01	00	00	00	10	00	3	00	00	00	00	00	00	00	00	00	00	00	
4	00	00	00	00	00	00	00	00	00	00	10	00	4	00	00	00	00	00	00	00	00	00	00	00	
5	00	00	00	00	00	00	00	00	00	00	10	00	5	00	00	00	00	00	00	00	00	00	00	00	
6	00	00	00	00	00	00	00	00	00	00	10	00	6	00	00	00	00	00	00	00	00	00	00	00	
7	00	00	00	00	00	00	11	00	01	00	11	00	7	00	00	00	00	00	00	00	00	00	00	00	
8	00	00	00	00	00	00	11	00	00	00	10	10	8	00	00	00	00	00	00	00	00	00	00	00	
9	00	00	00	00	00	00	01	00	00	00	10	11	9	00	00	00	00	00	00	00	00	00	00	00	
10	00	00	00	00	00	00	00	00	00	00	10	11	10	00	00	00	00	00	00	00	00	00	00	00	
11	00	00	00	00	00	00	00	00	00	00	10	01	11	00	00	00	00	00	00	00	00	00	00	00	
12	00	00	00	00	00	00	00	01	10	00	10	10	12	00	00	00	00	00	00	00	00	00	00	00	
13	00	00	00	00	00	00	00	01	00	00	11	00	13	00	00	00	00	00	00	00	00	00	00	00	
14	00	00	00	00	00	00	00	00	00	00	11	00	14	00	00	00	00	00	00	00	00	00	00	00	
15	00	00	00	00	00	00	01	00	00	00	10	10	15	00	00	00	00	00	00	00	00	00	00	00	
16	00	00	00	00	00	00	00	00	10	00	11	01	16	00	00	00	00	00	00	00	00	00	00	00	
17	00	00	00	00	00	00	01	00	00	00	11	00	17	00	00	00	00	00	00	00	00	00	00	00	
18	00	00	00	00	00	00	11	00	10	00	10	00	18	00	00	00	00	00	00	00	00	00	00	00	
19	00	00	00	00	00	00	11	00	00	00	10	11	19	00	00	00	00	00	00	00	00	00	00	00	
20	00	00	00	00	00	00	10	00	10	00	10	00	20	00	00	00	00	00	00	00	00	00	00	00	
21	00	00	00	00	00	00	00	00	00	00	10	01	21	00	00	00	00	00	00	00	00	00	00	00	
22	00	00	00	00	00	00	00	00	00	00	10	00	22	00	00	00	00	00	00	00	00	00	00	00	
23	00	00	00	00	00	00	00	00	01	00	10	00	23	00	00	00	00	00	00	00	00	00	00	00	
24	00	00	00	00	00	00	00	00	10	00	10	00	24	00	00	00	00	00	00	00	00	00	00	00	
25	00	00	00	00	00	00	00	00	11	00	11	00	25	00	00	00	00	00	00	00	00	00	00	00	
26	00	00	00	00	00	00	00	00	00	00	10	00	26	00	00	00	00	00	00	00	00	00	00	00	
27	00	00	00	00	00	00	00	00	01	00	10	00	27	00	00	00	00	00	00	00	00	00	00	00	
28	00	00	00	00	00	00	10	00	11	00	11	00	28	00	00	00	00	00	00	00	00	00	00	00	
29	00	00	00	00	00	00	10	00	11	00	10	10	29	00	00	00	00	00	00	00	00	00	00	00	
30	00	00	00	00	00	00	01	10	11	00	10	10	30	00	00	00	00	00	00	00	00	00	00	00	
31	00	00	00	00	00	00	00	00	00	00	00	11	31	00	00	00	00	00	00	00	00	00	00	00	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1977)
 ESTACION: UNIVERSIDAD DEL NORTE CDD160 : 01310053 5

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1978)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00		
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00		
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00		
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1979)
 ESTACION: UNIVERSIDAD DEL NORTE CODIGO : 01310053 5

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1980)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	01	00	00	10	00	00	
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	10	00	00	00	10	00	00
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	10	00	00
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	01	00	00	00	00	00	00
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00	00	00
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00	00	00
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00	00	00
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00	00	00
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00	00	01
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00	00	00
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00	00	00
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00	00	00
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	01	00	00	00	00	00	00	00
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00	00	00
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	10	00	00	00	00	00	00	00
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	01	00	00	00	00	00	00
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00	00	01
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	01	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	11	00	00	00	00	00	00	00
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	01	00	10	00	00	00	00	00
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00	00	00
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	10	01	00	00	00	00	00	00
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	00	00	01	01	00	00	00	00	00	00
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00	00	00
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00	00	00
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	01	00	00
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	01	00	00	00	00	00	00	00
29	00	00	00	00	00	00	00	00	00	00	00	00	29	00	00	00	00	01	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00	00	00
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	01	00	00	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAYIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1981)
 ESTACION: UNIVERSIDAD DEL NORTE CODIGO : 01310053

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LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1982)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	11	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	00	00	00	00	00	01	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	01	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	11	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	00	00	01	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	01		
12	00	00	00	11	00	01	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00		
13	00	00	00	11	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	11	01	01	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	01	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	00	00	00	01	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	01		
19	01	00	00	00	00	01	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	01	00	00	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	01	00	00	01	00	00	00	00	01	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	01	01	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	01	00		
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	10		
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	00	00	01	01	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	00	01	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	10		
27	00	00	00	01	00	00	00	10	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00		
29	00	00	00	11	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	11	00	00	00	00	00	01	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1983)
 ESTACION: UNIVERSIDAD DEL NORTE

EDDIBD : 01310053 5

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1984)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	11	00	00	00	00	00	01	01	1	00	00	00	00	10	00	00	00	11	00	00	
2	00	00	00	00	01	00	00	00	00	00	00	01	2	00	01	00	00	01	01	00	00	00	00	00	
3	01	00	00	01	00	00	01	00	00	00	01	00	3	00	00	00	00	00	00	00	00	00	11	00	00
4	00	00	01	00	00	00	01	00	00	01	00	01	4	00	00	00	10	00	00	01	00	00	11	11	00
5	00	00	00	00	01	00	00	00	00	00	00	00	5	00	00	00	11	00	01	00	00	00	11	00	00
6	00	00	00	00	00	00	01	00	00	01	00	01	6	00	00	00	01	00	00	00	01	00	01	00	01
7	00	00	00	00	00	01	01	01	00	00	00	00	7	00	00	00	01	10	00	00	00	00	01	01	01
8	00	00	00	00	00	00	00	00	00	01	00	01	8	00	00	00	11	00	00	00	01	00	00	00	00
9	00	00	00	00	01	01	00	00	00	00	00	01	9	00	00	00	01	00	00	00	00	01	00	00	00
10	00	00	00	00	01	00	11	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	10	00	00
11	00	00	00	00	01	00	00	00	00	01	00	00	11	10	00	00	00	10	00	00	00	01	01	00	01
12	10	00	00	01	00	00	00	00	10	01	00	00	12	00	00	01	00	00	00	01	10	01	01	00	00
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	10	00	00	01	10	11	01	00	00
14	00	00	00	00	00	00	00	00	00	00	10	01	14	01	01	00	00	00	00	00	10	10	00	01	00
15	00	00	01	00	00	00	00	00	00	01	00	00	15	00	01	01	00	01	00	00	10	00	00	00	00
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	01	00	10	01	00	00	00	00	00	00	00
17	00	00	00	11	11	00	00	00	00	01	00	00	17	00	01	00	00	00	00	00	00	10	00	00	01
18	00	00	00	11	11	00	01	00	00	00	00	00	18	00	01	01	00	00	00	00	00	01	00	10	00
19	00	00	00	11	11	00	11	00	01	00	00	00	19	00	01	01	00	00	00	00	00	00	00	00	00
20	00	00	00	11	00	01	01	00	01	00	01	00	20	00	01	00	00	00	00	00	00	01	00	00	00
21	10	00	00	01	00	01	11	00	01	00	00	01	21	00	01	00	01	00	00	00	00	00	00	00	00
22	00	00	00	00	00	01	00	00	00	00	01	00	22	00	00	01	00	01	00	00	00	01	00	00	01
23	00	00	00	00	10	01	00	10	00	00	00	00	23	00	11	01	00	00	00	00	00	11	00	00	01
24	00	00	00	00	10	00	00	00	00	00	01	00	24	10	01	00	10	01	00	00	00	01	00	00	00
25	00	00	00	00	11	00	10	00	01	00	01	00	25	00	11	01	00	01	00	00	00	00	10	10	00
26	10	00	00	00	10	01	01	00	00	00	00	00	26	00	01	00	01	00	01	00	11	01	10	00	00
27	00	00	00	00	00	01	00	00	01	00	01	00	27	00	01	01	10	00	00	00	00	00	10	00	00
28	00	00	00	11	00	01	00	00	01	00	00	00	28	00	01	00	00	00	00	00	00	01	10	00	01
29	00	00	00	00	00	01	00	00	01	00	00	00	29	00	00	10	01	00	00	00	00	00	10	00	00
30	10	00	00	00	00	01	00	00	01	00	00	00	30	00	00	10	10	00	00	01	00	01	10	00	00
31	00	00	00	00	11	00	00	00	00	00	00	00	31	00	00	00	00	00	00	01	00	00	10	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1985)
 ESTACION: UNIVERSIDAD DEL NORTE CODIGO : 01310053

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LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1986)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	01	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	11	00	00	00	01	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	01	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	01	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	01	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	01	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00		
13	00	00	00	01	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	10	01	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	01	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	01	00	00	00	00	00	00	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	00	01	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	00	00	00	10	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00		
24	00	00	00	01	00	01	00	00	00	00	00	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00		
27	00	00	00	01	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	00	00	00	00		
29	00	00	00	01	00	00	00	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	10	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.10 Estación El Buitre

3.10.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur $18^{\circ} 30'$ y Longitud Oeste $70^{\circ} 20'$ a una altura de 330 msnm.

Posee estadística de lecturas directas a partir de Septiembre de 1985 y registro termográficos desde Agosto de 1985.

3.10.2 Información existente

La tabla 25 muestra la información existente de la estación de lecturas directas, la que totaliza 40 meses (solo hasta Diciembre de 1988). La tabla 26 muestra la información existente de termogramas la que totaliza 48 meses.

3.10.3 Información traducida

En esta estación existe un período de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero de 1986 a Diciembre de 1989, (48 meses). Por lo tanto la traducción por parte del consultor abarca 4 meses de lecturas directas y 48 meses de registros termográficos.

3.10.4 Validación

Se ha efectuado una entre las lecturas del higrotermógrafo y las lecturas directas en el período que les es común, usando el período total de información existente.

Los factores de corrección aplicados a los termogramas se muestran en la tabla 27.

Después de aplicadas los factores de corrección mediante un proceso computacional se ha descartado todos los valores de Lecturas directas máximas y mínimas fuera del rango ± 1.9 . Se incluye un listado con el detalle de los valores eliminados.

Se incluye un listado de los promedios mensuales y desviaciones estándar para las lecturas directas y termográficas en todo el período.

ESTACION EL BUITRE

TABLA 25

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
1/9/85	7/10/88	1/9/85	7/10/88
10/10/88	20/10/88	10/10/88	21/10/88
23/10/88	3/11/88	23/10/88	4/11/88
9/11/88	1/1/89	9/11/88	1/1/89

ESTACION EL BUITRE

TABLA 26

TERMÓGRAMAS

DESDE	HASTA
26/8/85	30/8/85
2/9/85	26/5/87
27/5/87	30/1/89
6/2/89	22/2/89
13/3/89	18/3/89
20/3/89	29/5/89
18/9/89	2/10/89

TABLA 27

FACTORES DE CORRECCION

DESDE	HASTA	FC
01 09 85	07 10 85	+1.0
28 10 85	04 11 85	+1.0
18 11 85	25 11 85	+0.5
06 01 86	13 01 86	-2.0
13 01 86	27 01 86	-1.0
27 01 86	03 02 86	-2.0
03 02 86	03 03 86	-1.0
03 03 86	10 03 86	-3.0
17 03 86	07 04 86	-3.0
07 04 86	28 04 86	-4.0
28 04 86	05 05 86	-5.0
05 05 86	12 05 86	-4.0
18 08 86	25 08 86	+0.5
22 09 86	29 09 86	+0.7
03 11 86	10 11 86	+1.0
12 01 87	19 01 87	+0.5
30 03 87	06 04 87	+0.5
01 06 87	08 06 87	+3.0
08 06 87	22 06 87	+1.0
24 08 87	31 08 87	-1.0
14 09 87	21 09 87	+1.5
30 11 87	21 12 87	-1.0
25 01 88	01 02 88	+1.0
18 04 88	25 04 88	-0.5
25 04 88	02 05 88	-1.0
23 05 88	30 05 88	-1.0
20 06 88	27 06 88	+1.0
15 08 88	22 08 88	-1.0
29 08 88	25 09 88	-1.0
24 10 88	31 10 88	-1.0
07 11 88	21 11 88	-1.0
28 11 88	05 12 88	-1.0
05 12 88	02 01 89	-2.0
23 01 89	27 02 89	-1.0
20 03 89	27 03 89	+1.0
10 04 89	17 04 89	+1.0
29 05 89	02 10 89	+18.0

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : EL BUITRE CODIGO: 01400050 K

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
85	1	0.00	0	0.000	0.00	0	0.000
86	1	28.02	31	1.115	19.47	30	1.281
87	1	28.70	31	1.214	20.04	31	1.130
88	1	27.32	31	1.029	19.75	31	1.143
89	1	27.37	29	2.198	19.35	28	1.634
85	2	0.00	0	0.000	0.00	0	0.000
86	2	28.94	27	1.362	19.12	26	1.661
87	2	29.16	28	1.051	20.40	28	1.510
88	2	28.52	25	1.298	18.15	25	1.017
89	2	29.81	28	0.867	19.06	28	0.729
85	3	0.00	0	0.000	0.00	0	0.000
86	3	26.31	29	1.168	17.54	30	0.986
87	3	28.18	31	1.818	20.15	31	1.041
88	3	26.06	31	1.682	18.09	31	1.895
89	3	28.07	25	1.535	17.22	24	0.837
85	4	0.00	0	0.000	0.00	0	0.000
86	4	24.26	29	1.234	15.85	28	1.295
87	4	24.69	30	1.561	17.33	27	1.504
88	4	24.38	30	1.402	15.69	29	1.965
89	4	24.75	21	1.205	15.54	28	1.357
85	5	0.00	0	0.000	0.00	0	0.000
86	5	21.98	30	1.034	15.71	27	2.310
87	5	22.74	27	1.537	15.50	23	1.662
88	5	20.96	30	1.438	14.45	31	1.806
89	5	20.44	22	1.363	12.28	26	1.883
85	6	0.00	0	0.000	0.00	0	0.000
86	6	19.01	30	1.086	12.58	26	1.961
87	6	20.81	29	1.004	15.46	20	1.217
88	6	18.12	30	0.874	11.74	30	1.935
89	6	19.89	30	1.051	12.94	30	1.524
85	7	0.00	0	0.000	0.00	0	0.000
86	7	17.58	31	0.926	12.00	26	1.990
87	7	19.19	31	1.008	14.58	28	1.941
88	7	17.31	30	0.775	12.16	27	1.543
89	7	18.35	31	0.754	12.52	31	1.147
85	8	0.00	0	0.000	0.00	0	0.000
86	8	18.37	31	0.717	13.97	31	1.113
87	8	19.63	31	0.892	14.59	31	1.170
88	8	17.67	31	0.693	13.18	30	1.323
89	8	18.60	31	0.941	12.45	31	1.891

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : EL NUITRE CODIGO: 01400050 K

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
85	9	19.68	30	1.303	14.81	30	1.163
86	9	18.95	30	0.904	14.66	30	1.393
87	9	20.40	30	1.004	14.29	30	1.488
88	9	19.15	27	0.651	13.00	27	1.349
89	9	19.22	30	0.886	13.28	20	1.667
85	10	22.47	31	1.387	16.33	30	1.627
86	10	21.10	31	1.256	15.03	31	2.150
87	10	21.89	31	1.389	15.54	29	1.566
88	10	20.53	27	1.262	14.23	25	1.389
89	10	21.05	31	1.003	13.49	31	1.889
85	11	24.51	29	1.150	17.08	29	1.822
86	11	23.64	29	1.303	16.54	24	1.501
87	11	23.58	30	1.278	16.99	29	1.291
88	11	22.94	25	0.987	14.59	22	1.772
89	11	22.90	30	0.780	14.53	30	1.651
85	12	28.18	28	1.467	20.07	28	1.688
86	12	25.92	31	1.378	17.88	31	1.572
87	12	25.65	31	1.247	17.97	30	1.922
88	12	25.16	29	1.030	15.66	28	1.323
89	12	23.18	30	1.170	15.46	30	1.637

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : EL BUITRE

CODIGO: 01400050

K

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
85	1	0.00	0	0.000	0.00	0	0.000
86	1	27.72	30	1.024	19.63	31	1.524
87	1	28.40	31	1.145	19.85	31	1.190
88	1	27.11	31	1.146	19.75	31	0.921
89	1	27.43	29	2.249	19.15	30	1.687
85	2	0.00	0	0.000	0.00	0	0.000
86	2	29.23	28	1.476	19.63	28	1.732
87	2	29.10	28	1.359	20.64	27	1.493
88	2	27.68	28	1.156	18.45	29	1.021
89	2	29.38	16	0.987	20.03	16	0.525
85	3	0.00	0	0.000	0.00	0	0.000
86	3	26.66	31	1.217	18.02	31	0.958
87	3	28.34	31	1.775	20.21	31	1.321
88	3	25.85	31	1.631	18.44	31	1.485
89	3	25.53	16	1.096	18.29	16	0.911
85	4	0.00	0	0.000	0.00	0	0.000
86	4	24.08	30	1.448	16.24	30	1.350
87	4	25.05	30	1.304	17.67	30	1.288
88	4	24.41	30	1.283	16.17	30	1.946
89	4	22.60	20	1.130	15.94	30	1.262
85	5	0.00	0	0.000	0.00	0	0.000
86	5	22.36	31	1.291	16.00	31	1.840
87	5	22.84	30	1.706	16.17	29	1.364
88	5	20.75	30	1.442	14.56	31	1.634
89	5	18.79	26	0.834	12.68	29	1.236
85	6	0.00	0	0.000	0.00	0	0.000
86	6	18.64	30	0.942	12.48	30	1.684
87	6	20.74	28	1.062	16.10	28	1.545
88	6	18.37	30	0.909	11.92	30	1.684
89	6	0.00	0	0.000	0.00	0	0.000
85	7	0.00	0	0.000	0.00	0	0.000
86	7	17.32	31	1.260	11.78	31	1.920
87	7	19.53	31	1.022	14.54	31	1.611
88	7	17.62	31	0.652	12.87	31	1.573
89	7	0.00	0	0.000	0.00	0	0.000
85	8	18.24	5	0.385	13.98	4	1.466
86	8	18.07	31	0.685	14.16	31	0.949
87	8	19.74	31	0.714	14.96	31	1.102
88	8	18.07	31	0.544	13.44	31	1.344
89	8	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE TERMOGRAMAS
 ESTACION : EL RUITRE CODIGO: 01400050 K

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
85	9	19.64	29	0.975	15.29	27	0.898
86	9	18.83	30	0.937	14.44	30	1.156
87	9	20.21	30	0.833	14.52	30	1.507
88	9	18.18	30	0.825	12.90	30	1.136
89	9	18.48	12	0.911	14.79	13	1.043
85	10	22.09	31	1.262	16.18	31	1.518
86	10	21.25	31	1.209	14.95	31	1.830
87	10	21.82	31	1.366	13.85	31	1.453
88	10	20.41	31	1.235	14.97	31	1.484
89	10	0.00	0	0.000	0.00	0	0.000
85	11	24.25	30	1.188	17.08	30	1.701
86	11	23.33	30	1.617	16.63	30	1.908
87	11	23.30	30	1.391	17.07	30	1.566
88	11	22.40	29	0.833	15.51	30	1.740
89	11	0.00	0	0.000	0.00	0	0.000
85	12	27.68	31	1.718	20.34	31	1.630
86	12	25.40	31	1.610	17.71	31	1.740
87	12	25.37	31	1.153	18.16	31	2.056
88	12	24.10	31	1.112	16.41	31	1.202
89	12	0.00	0	0.000	0.00	0	0.000

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1985)
 ESTACION: EL BUITRE CODIGO : 01400050 K

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1986)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	11	00		
2	00	00	00	00	00	00	00	00	00	00	00	10	2	00	00	00	00	00	00	01	00	00	01	00	
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00	00	
4	00	00	00	00	00	00	00	00	00	00	00	00	4	01	00	00	00	00	00	01	00	00	00	00	
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	01	00	00	00	00	00	
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00	00	
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	00	00	01	00	00	00	00	00	
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	01	00	00	00	00	
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	10	00	00	00	00	00	00	00	00	
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	01	00	
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00	00	
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	11	00	00	00	00	00	00	
13	00	00	00	00	00	00	00	00	00	01	00	00	13	00	00	00	00	00	01	00	00	00	00	00	
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00	00	
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00	00	
16	00	00	00	00	00	00	00	00	00	00	00	01	16	00	00	00	00	00	00	00	00	00	00	00	
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	10	00	00	00	00	00	00	00	00	
18	00	00	00	00	00	00	00	00	00	00	00	00	18	00	00	00	00	01	00	00	00	00	00	00	
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	11	00	00	00	00	00	00	00	
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	00	01	00	00	00	00	
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00	00	
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00	00	
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	10	00	00	00	00	00	00	00	00	00	
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	01	01	00	00	01	00	00	00	00	00	
25	00	00	00	00	00	00	00	00	00	00	00	01	25	00	00	00	00	01	00	00	00	00	00	00	
26	00	00	00	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00	01	
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00	00	
28	00	00	00	00	00	00	00	00	00	00	00	01	28	00	01	00	00	00	00	00	00	00	00	01	
29	00	00	00	00	00	00	00	00	00	00	00	01	29	00	00	00	01	01	01	00	00	00	00	01	
30	00	00	00	00	00	00	00	00	00	00	00	10	30	00	00	00	00	00	00	00	00	00	00	00	
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00	00	

{ 1 } : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1987)
 ESTACION: EL BUITRE

ORDENO : 01400050 X

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1988)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	01	00		
2	00	00	00	00	00	01	00	00	00	00	00	00	2	00	00	00	00	00	01	00	00	00	00	00	
3	00	00	00	00	00	01	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	01	00	
4	00	00	00	01	01	01	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00	01	
5	00	00	00	00	00	01	00	00	00	01	00	00	5	00	00	00	00	00	00	00	00	00	00	00	
6	00	00	00	00	00	01	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	10	00	10	
7	00	00	00	00	00	01	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00	00	
8	00	00	00	00	01	01	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	01	00	00	
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00	00	
10	00	00	00	00	10	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00	00	
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00	00	
12	00	00	00	00	01	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00	00	
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	10	00	00	00	00	00	00	00	00	00	
14	00	00	00	00	00	01	00	00	00	01	00	00	14	00	10	00	00	00	00	00	00	00	01	00	
15	00	00	00	00	01	01	00	00	00	00	00	00	15	00	00	00	00	00	00	00	01	00	00	00	
16	00	00	00	00	00	00	01	00	00	00	00	00	16	00	00	00	00	00	00	00	00	01	00	00	
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	00	00	00	00	00	10	00	00	01	00	
18	00	00	00	00	00	10	00	00	00	00	00	00	18	00	00	00	00	00	00	00	00	00	00	00	
19	00	00	00	00	00	00	00	00	00	00	00	01	19	00	00	00	00	00	01	00	11	00	00	00	
20	00	00	00	00	00	00	00	00	00	00	01	00	20	00	00	00	00	00	00	00	10	00	00	00	
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	10	00	00	00	00	00	00	01	00	00	
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	10	00	00	00	01	00	00	00	00	00	
23	00	00	00	00	01	00	00	00	00	00	00	00	23	00	01	00	00	00	00	00	00	00	00	01	
24	00	00	00	01	00	00	00	00	00	00	00	00	24	00	01	00	01	00	00	00	00	00	00	00	
25	00	00	00	00	10	00	01	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	01	00	
26	00	00	00	01	00	01	01	00	00	00	00	00	26	00	00	00	00	00	01	00	00	00	00	10	
27	00	00	00	00	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00	01	
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	01	00	00	00	00	00	00	00	00	00	
29	00	00	00	00	01	00	00	00	00	00	00	00	29	00	01	00	00	00	00	00	01	00	00	00	
30	00	00	00	00	00	00	00	00	00	00	00	00	30	00	00	00	00	10	00	00	00	00	00	00	
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00	00	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1989)
 ESTACION: EL RUJIRE CODIGO : 01400050 X

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1990)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	10	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	10	10	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	00		
3	00	00	00	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	00		
4	00	00	00	00	10	00	00	00	00	00	00	00	4	00	00	00	00	00	00	00	00	00	00		
5	00	00	00	10	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00		
6	00	00	00	00	10	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00		
7	00	00	00	00	11	00	00	00	00	00	00	00	7	00	00	00	00	00	00	00	00	00	00		
8	00	00	00	10	00	00	00	00	00	00	00	00	8	00	00	00	00	00	00	00	00	00	00		
9	00	00	00	10	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00		
10	00	00	00	00	10	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00		
11	00	00	00	01	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00		
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00		
13	10	00	00	01	00	00	00	00	00	00	00	00	13	00	00	00	00	00	00	00	00	00	00		
14	00	00	11	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	00	00	00	00		
15	00	00	01	10	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	00		
16	10	00	00	00	10	00	00	00	00	00	00	00	16	00	00	00	00	00	00	00	00	00	00		
17	00	00	00	10	01	00	00	00	00	00	00	00	17	00	00	00	00	00	00	00	00	00	00		
18	00	00	01	00	00	00	00	00	01	00	00	00	18	00	00	00	00	00	00	00	00	00	00		
19	00	00	00	00	01	00	00	00	01	00	00	00	19	00	00	00	00	00	00	00	00	00	00		
20	00	00	00	00	00	00	00	00	01	00	00	00	20	00	00	00	00	00	00	00	00	00	00		
21	00	00	00	00	01	00	00	00	01	00	00	00	21	00	00	00	00	00	00	00	00	00	00		
22	00	00	11	10	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00		
23	00	00	00	00	01	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00		
24	01	00	00	00	00	00	00	00	01	00	00	00	24	00	00	00	00	00	00	00	00	00	00		
25	00	00	01	00	00	00	00	00	01	00	00	00	25	00	00	00	00	00	00	00	00	00	00		
26	00	00	10	00	10	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00		
27	01	00	00	00	00	00	00	00	01	00	00	00	27	00	00	00	00	00	00	00	00	00	00		
28	00	00	11	10	10	00	00	00	01	00	00	00	28	00	00	00	00	00	00	00	00	00	00		
29	01	00	10	00	00	00	00	00	01	00	00	00	29	00	00	00	00	00	00	00	00	00	00		
30	00	00	00	10	00	00	00	00	01	00	00	00	30	00	00	00	00	00	00	00	00	00	00		
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00		

(11) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.11 Estación Codpa

3.11.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur $18^{\circ} 30'$ y Longitud Oeste $69^{\circ} 45'$ a una altura de 1800 msnm.

Posee estadística de lecturas directas a partir de 18/12/1968 y registro termográficos desde 17/12/1968.

3.11.2 Información existente

La tabla 28 muestra la información existente de la estación de lecturas directas, la que totaliza 235 meses (hasta diciembre de 1988). La tabla 29 muestra la información existente de termogramas la que totaliza 243 meses.

3.11.3 Información traducida

En esta estación existe un periodo de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero 1986 a Diciembre 1989, a excepción de los meses Agosto 1986, Enero 1989 (46 meses) y registros termográficos que van desde Diciembre de 1968 a Diciembre de 1984, con excepción de Septiembre de 1979 a Agosto de 1971, Febrero de 1973, Junio de 1973 a Diciembre de 1976 y Agosto y Septiembre de 1980 (133 meses). Por lo tanto la traducción por parte del consultor abarca 198 meses de lecturas directas y 108 meses de registros termográficos.

3.11.4 Validación

Se ha efectuado una entre las lecturas del higrómetro y las lecturas directas en el periodo que les es común, usando el periodo total de información existente.

Los factores de corrección aplicados a los termogramas se muestran en la tabla 30. Después de aplicadas los factores de corrección mediante un proceso computacional se ha descartado todos los valores de lecturas directas máximas y mínimas fuera del rango ± 1.9 . Se incluye un listado con el detalle de los valores eliminados.

Además se ha comparado las lecturas directas con los valores de termogramas traducidos con anterioridad por la DBA, en el periodo anterior a Diciembre 1984, con lo cual se han eliminado los valores de lecturas directas que al compararlos con los valores de los termogramas previamente ingresados por la DBA, dan una diferencia mayor a ± 1.9 .

Se incluye un listado de los promedios mensuales y desviaciones estándar para las lecturas directas y termográficas en todo el periodo.

ESTACION CODPA

TABLA 28

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
18/12/68	30/6/72	18/12/68	30/6/72
1/10/72	31/8/76	1/10/72	31/8/76
1/10/76	20/10/76	1/10/76	20/10/76
22/10/76	31/7/77	22/10/76	31/7/77
1/9/77	7/9/79	1/9/77	7/9/79
12/9/79	31/1/80	12/9/79	31/1/80
1/3/80	18/3/80	1/3/80	18/3/80
21/3/80	4/6/80	21/3/80	4/6/80
7/6/80	31/7/80	7/6/80	31/7/80
1/10/80	31/10/80	1/10/80	31/10/80
1/12/80	31/12/80	1/12/80	31/12/80
1/2/81	31/7/86	1/2/81	31/7/86
1/9/86	6/8/87	1/9/86	6/8/87
9/8/87	23/9/88	9/8/87	23/9/88
26/9/88	10/10/88	26/9/88	10/10/88
12/10/88	31/12/88	12/10/88	31/12/88

ESTACION CODPA

TABLA 29

TERMIGRAMAS

DESDE	HASTA
17/12/68	19/4/71
21/4/71	30/8/71
16/9/71	17/1/73
22/3/73	25/11/74
16/12/74	30/8/76
27/9/76	31/1/77
7/2/77	25/7/77
29/8/77	28/7/80
29/9/80	27/10/80
29/11/80	29/12/80
26/1/81	2/12/85
13/12/85	30/6/88
30/3/87	15/4/88
18/4/88	23/9/88
26/9/88	26/12/88
30/1/89	1/1/90

TABLA 30

FACTORES DE CORRECCION		
INICIO	TERMINO	FC
28 09 70	05 10 70	+1.0
12 10 70	02 11 70	+1.0
09 11 70	16 11 70	+1.0
23 11 70	30 11 70	+1.0
14 12 70	21 12 70	+1.0
28 12 70	04 01 71	+1.0
11 01 71	01 02 71	+1.0
15 02 71	22 02 71	+2.0
22 02 71	01 03 71	+1.0
01 03 71	08 03 71	+2.0
08 03 71	22 03 71	+1.0
22 03 71	05 04 71	+2.0
05 04 71	12 04 71	+1.0
26 04 71	03 05 71	+2.0
17 05 71	29 05 71	+1.0
24 05 71	07 06 71	+2.0
07 06 71	14 06 71	+1.0
14 06 71	21 06 71	+2.0
02 08 71	09 08 71	+1.0
16 08 71	30 08 71	+1.0
11 06 73	18 06 73	+1.0
09 07 73	16 07 73	+1.0
23 07 73	30 07 73	+2.0
10 09 73	17 09 73	+1.0
13 10 73	22 10 73	+1.0
26 11 73	03 12 73	+1.0
10 12 73	17 12 73	+2.0
14 01 85	21 01 85	+1.0
08 04 85	15 04 85	+1.0
27 05 85	03 06 85	-1.0
17 06 85	24 06 85	-1.0
29 07 85	05 08 85	-1.0
30 09 85	07 10 85	+1.0
14 10 85	28 10 85	+1.0
28 10 85	04 11 85	+2.0
04 11 85	11 11 85	+1.0
17 02 86	24 02 86	+1.0
07 04 86	14 04 86	+1.0
04 05 86	11 05 86	-1.0
25 05 87	08 06 87	-1.0
10 08 87	17 08 87	-1.0
24 08 87	07 09 87	-1.0
28 09 87	05 10 87	-1.0
05 10 87	12 10 87	-2.0
26 10 87	02 11 87	-1.0
09 11 87	23 11 87	-1.0
07 12 87	21 12 87	-1.0

TABLA 30

FACTORES DE CORRECCION

INICIO	TERMINO	FC
28 12 87	11 01 88	-1.0
15 02 88	22 02 88	-1.0
26 09 88	03 10 88	+11.3
26 06 89	03 07 89	+3.0
18 09 89	25 09 89	+2.5
16 10 89	23 10 89	+2.0
23 10 89	30 10 89	+2.5
30 10 89	06 11 89	+2.1
06 11 89	13 11 89	+1.5
13 11 89	20 11 89	+1.0

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CODPA

CODIGO: 01410051 2

ano	mes	PRDN(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
68	1	0.00	0	0.000	0.00	0	0.000
69	1	23.57	13	1.629	8.54	7	0.978
70	1	24.73	22	1.438	10.22	27	1.244
71	1	23.49	27	1.212	9.62	22	1.593
72	1	22.37	26	0.676	11.44	14	1.690
73	1	24.39	30	1.381	12.24	22	2.019
74	1	23.14	16	1.692	12.38	14	0.781
75	1	23.80	20	1.007	11.50	10	1.650
76	1	23.44	16	0.865	11.75	11	1.881
77	1	23.59	28	1.048	9.77	27	1.474
78	1	23.41	24	1.682	10.44	27	1.733
79	1	23.64	31	0.991	11.37	24	1.884
80	1	24.61	30	0.893	10.04	30	1.714
81	1	0.00	0	0.000	0.00	0	0.000
82	1	23.70	29	0.855	9.31	19	1.522
83	1	24.93	22	1.338	10.25	29	1.435
84	1	22.01	24	1.386	10.18	28	1.353
85	1	22.44	26	1.271	8.40	30	2.431
86	1	23.03	22	1.464	10.61	30	1.060
87	1	23.52	31	1.638	11.80	31	1.756
88	1	23.90	27	0.860	10.45	24	1.684
89	1	0.00	0	0.000	0.00	0	0.000
68	2	0.00	0	0.000	0.00	0	0.000
69	2	24.36	5	1.220	10.13	9	1.212
70	2	24.99	23	1.593	10.03	26	1.086
71	2	22.85	26	1.161	10.64	25	1.488
72	2	27.91	19	1.250	11.48	25	1.261
73	2	23.77	23	1.441	12.47	27	1.475
74	2	22.88	15	0.838	11.67	17	1.118
75	2	22.79	14	0.568	12.38	18	1.244
76	2	22.36	14	0.898	10.10	6	0.518
77	2	23.41	26	1.210	12.11	26	2.567
78	2	24.07	19	0.955	10.26	28	1.464
79	2	23.90	25	0.835	9.25	26	0.933
80	2	0.00	0	0.000	0.00	0	0.000
81	2	24.03	19	0.922	11.85	27	1.456
82	2	23.63	27	1.004	9.25	22	2.171
83	2	25.60	19	0.971	10.51	24	2.177
84	2	22.89	20	0.985	11.09	25	1.766
85	2	23.12	27	1.195	10.58	24	1.830
86	2	22.09	21	1.618	9.72	27	1.490
87	2	24.82	28	1.358	9.88	28	1.608
88	2	24.11	27	0.797	9.00	23	1.680
89	2	22.84	24	1.040	11.36	26	1.515
68	3	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CODPA

CODIGO: 01410031

2

ano	mes	PROM(MAX)	N DIAS	D. ESTANDAR	PROM(MIN)	N DIAS	D. ESTANDARD
69	3	24.03	9	0.943	9.12	5	2.726
70	3	24.44	27	1.300	9.74	27	1.436
71	3	23.02	29	0.998	8.54	23	0.911
72	3	22.62	27	1.195	10.74	29	1.169
73	3	23.85	26	1.016	10.87	26	1.758
74	3	22.95	19	0.973	10.32	10	1.877
75	3	23.13	19	1.317	11.13	21	1.723
76	3	22.93	22	0.921	10.31	16	0.745
77	3	24.51	28	1.191	11.64	31	1.837
78	3	23.81	17	0.808	9.39	27	1.773
79	3	23.58	31	0.872	10.51	26	1.522
80	3	24.92	29	1.367	10.70	26	1.008
81	3	24.17	22	1.033	9.99	25	1.468
82	3	23.36	27	1.283	7.97	29	1.256
83	3	24.74	25	0.914	10.46	26	1.537
84	3	23.49	19	0.880	9.88	27	1.189
85	3	23.79	26	0.941	9.98	26	1.555
86	3	22.88	30	1.137	9.45	30	1.250
87	3	24.26	30	1.401	8.89	31	1.225
88	3	24.20	26	1.631	9.78	25	1.542
89	3	22.38	26	0.873	9.81	27	1.186
68	4	0.00	0	0.000	0.00	0	0.000
69	4	24.17	7	1.397	6.40	10	1.373
70	4	25.07	24	0.798	7.96	23	1.109
71	4	23.30	27	0.886	6.86	28	2.173
72	4	23.64	28	1.447	7.83	29	1.939
73	4	23.99	26	1.182	8.69	24	1.204
74	4	23.76	22	1.221	8.69	17	0.957
75	4	24.03	22	1.226	8.37	14	1.034
76	4	23.73	25	1.198	8.44	15	1.226
77	4	24.16	27	1.570	6.88	23	0.854
78	4	23.62	20	1.296	8.06	25	1.275
79	4	24.77	27	1.229	7.65	26	1.373
80	4	24.50	25	1.891	8.82	22	1.836
81	4	24.73	23	0.973	8.73	27	2.443
82	4	23.85	28	1.651	7.22	25	2.065
83	4	25.03	23	0.960	8.04	27	1.589
84	4	23.42	22	0.917	8.08	8	0.709
85	4	23.80	28	1.314	10.76	25	1.502
86	4	23.32	25	1.061	7.23	30	1.302
87	4	25.46	30	1.705	7.71	24	1.560
88	4	23.46	28	1.271	8.36	25	1.846
89	4	23.10	28	0.911	7.14	28	1.893
68	5	0.00	0	0.000	0.00	0	0.000
69	5	26.43	13	1.116	5.95	13	1.407

PRÓMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CODPA

CODIGO: 01410051 2

año	mes	FRON(MAX)	N DIAS	D.ESTANDAR	FRON(MIN)	N DIAS	D.ESTANDAR
70	5	23.59	22	1.972	5.77	26	2.762
71	5	24.87	27	0.972	4.86	26	1.128
72	5	24.80	23	0.913	6.87	28	1.770
73	5	24.07	25	0.816	6.90	26	1.088
74	5	24.26	23	1.015	6.54	14	1.138
75	5	23.95	20	0.805	7.39	20	1.241
76	5	24.84	16	1.031	7.49	18	1.559
77	5	23.70	23	1.347	6.43	27	1.254
78	5	24.34	22	1.807	6.41	20	1.493
79	5	24.69	27	1.095	5.65	26	1.258
80	5	24.90	27	1.787	7.04	26	1.406
81	5	23.98	20	1.112	5.79	27	1.712
82	5	23.89	29	1.992	4.29	25	2.182
83	5	24.68	16	1.420	6.42	26	1.985
84	5	24.33	24	1.129	6.03	20	1.860
85	5	24.21	29	1.448	7.49	26	1.742
86	5	23.30	23	1.849	4.72	29	2.432
87	5	24.06	28	1.949	6.44	20	1.746
88	5	23.04	24	1.223	6.16	30	2.190
89	5	23.79	29	1.363	5.34	30	1.048
68	6	0.00	0	0.000	0.00	0	0.000
69	6	25.65	15	1.065	7.30	6	2.426
70	6	23.07	25	1.288	4.66	25	1.487
71	6	23.81	19	1.756	4.68	20	2.070
72	6	23.12	26	1.422	6.30	24	2.088
73	6	23.73	20	1.534	4.69	20	1.601
74	6	23.73	30	1.298	5.79	30	1.680
75	6	23.82	30	1.941	6.62	30	2.153
76	6	24.23	30	1.715	5.24	30	1.749
77	6	24.96	27	1.269	7.87	23	2.207
78	6	24.82	22	1.341	7.31	18	1.359
79	6	24.29	27	1.998	6.03	23	1.866
80	6	25.31	25	1.296	7.05	22	1.509
81	6	23.56	19	0.572	5.41	14	0.994
82	6	24.82	27	1.332	5.10	16	2.013
83	6	23.62	12	2.319	5.34	20	2.331
84	6	23.97	24	0.958	6.74	19	1.523
85	6	24.89	18	1.702	6.57	14	2.243
86	6	23.97	26	1.759	4.23	27	1.489
87	6	24.76	27	1.185	6.25	25	1.914
88	6	23.93	26	1.691	3.93	30	1.681
89	6	24.97	26	0.941	5.74	25	1.271
68	7	0.00	0	0.000	0.00	0	0.000
69	7	26.04	15	1.419	5.72	5	1.677
70	7	24.34	14	1.378	6.93	3	2.386

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CODFA

CODIGO: 01410051

2

ano	mes	PROM(MAX)	N DIAS	D. ESTANDAR	PROM(MIN)	N DIAS	D. ESTANDAR
71	7	24.61	28	1.289	4.09	27	1.634
72	7	0.00	0	0.000	0.00	0	0.000
73	7	24.20	25	1.074	6.50	14	1.800
74	7	23.97	31	1.073	6.92	31	1.516
75	7	22.73	31	0.943	4.22	31	1.288
76	7	23.17	31	1.770	6.98	31	1.556
77	7	24.44	26	1.693	6.68	26	1.933
78	7	24.18	22	1.406	7.06	24	1.917
79	7	23.21	30	1.786	6.45	30	2.361
80	7	24.32	29	1.128	7.65	27	1.731
81	7	24.03	24	1.254	3.78	24	1.286
82	7	23.00	23	0.970	4.77	23	1.409
83	7	24.29	18	1.198	4.30	21	2.033
84	7	23.83	30	1.276	5.13	24	1.375
85	7	23.71	20	0.769	3.60	6	1.252
86	7	24.16	31	1.604	4.44	31	2.407
87	7	24.99	22	1.039	6.99	17	3.568
88	7	23.93	25	1.382	4.07	28	1.331
89	7	24.69	30	1.753	4.90	24	2.296
68	8	0.00	0	0.000	0.00	0	0.000
69	8	23.58	8	1.240	6.82	10	1.156
70	8	24.77	12	1.396	4.78	10	1.400
71	8	23.63	24	1.579	4.37	29	1.493
72	8	0.00	0	0.000	0.00	0	0.000
73	8	23.31	28	1.495	5.61	29	1.669
74	8	24.24	31	1.725	7.45	31	3.349
75	8	23.50	31	1.774	4.84	31	2.253
76	8	23.74	31	1.893	5.79	31	2.461
77	8	0.00	0	0.000	0.00	0	0.000
78	8	24.53	20	1.227	9.58	27	1.226
79	8	25.42	30	1.502	6.36	25	1.738
80	8	0.00	0	0.000	0.00	0	0.000
81	8	23.68	23	1.360	5.37	23	2.566
82	8	23.37	28	1.457	6.68	25	1.510
83	8	23.32	15	1.307	6.74	23	0.694
84	8	24.91	18	1.089	6.12	26	2.170
85	8	24.22	22	0.864	4.18	6	2.211
86	8	0.00	0	0.000	0.00	0	0.000
87	8	25.57	23	1.238	5.72	21	1.650
88	8	23.98	21	1.328	4.70	29	1.376
89	8	24.54	31	1.210	4.82	30	1.195
68	9	0.00	0	0.000	0.00	0	0.000
69	9	26.06	17	1.272	6.80	3	0.800
70	9	24.48	26	0.933	5.66	29	1.182
71	9	23.90	28	1.461	5.25	30	0.885

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CODPA

CODIGO: 01410051 2

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
72	9	0.00	0	0.000	0.00	0	0.000
73	9	24.16	27	1.400	7.41	28	1.873
74	9	23.51	30	1.196	6.03	30	1.190
75	9	23.44	30	0.342	6.15	30	1.183
76	9	0.00	0	0.000	0.00	0	0.000
77	9	25.21	25	1.752	7.43	21	1.917
78	9	25.03	24	0.913	8.30	27	1.453
79	9	24.79	24	0.768	5.60	13	0.668
80	9	0.00	0	0.000	0.00	0	0.000
81	9	24.55	27	1.484	6.28	26	1.737
82	9	24.95	27	1.320	6.86	23	2.164
83	9	24.21	18	1.159	5.68	12	1.742
84	9	24.01	28	1.318	6.04	17	1.263
85	9	24.25	19	1.040	6.65	15	1.997
86	9	24.99	30	1.460	6.21	30	1.268
87	9	24.97	23	1.221	5.74	21	1.892
88	9	23.21	22	1.418	5.80	25	1.318
89	9	24.03	24	1.381	4.93	24	1.662
68	10	0.00	0	0.000	0.00	0	0.000
69	10	25.02	26	1.208	6.83	12	0.781
70	10	24.68	30	1.393	5.83	25	1.423
71	10	24.78	26	1.069	5.26	29	0.824
72	10	24.84	29	1.003	8.63	29	2.006
73	10	23.77	30	1.189	7.42	26	1.522
74	10	24.16	31	1.525	6.31	31	1.552
75	10	24.19	31	0.947	6.07	31	0.982
76	10	24.01	30	1.127	6.93	30	1.505
77	10	24.59	24	1.110	7.80	30	1.576
78	10	24.80	25	0.881	9.35	29	1.113
79	10	25.21	29	1.465	8.96	25	1.648
80	10	25.07	31	1.188	8.07	30	1.942
81	10	24.71	28	1.217	6.26	29	1.179
82	10	24.14	27	1.209	6.21	28	1.563
83	10	24.68	20	1.343	6.27	29	1.044
84	10	24.59	31	1.284	8.07	27	1.591
85	10	24.46	26	1.613	6.71	30	0.853
86	10	24.33	31	1.403	5.69	31	1.414
87	10	24.40	24	1.057	6.54	25	2.018
88	10	24.00	26	1.209	5.86	27	1.337
89	10	24.33	28	0.921	5.57	23	1.318
68	11	0.00	0	0.000	0.00	0	0.000
69	11	24.90	21	1.519	7.69	29	1.664
70	11	23.59	30	0.803	6.17	29	0.946
71	11	23.38	24	1.305	6.97	28	1.719
72	11	24.52	26	1.116	8.78	24	0.976

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS

ESTACION : CODPA

CODIGO: 01410051

2

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
73	11	24.10	29	0.930	7.70	28	1.077
74	11	23.87	30	1.176	7.45	30	1.318
75	11	23.36	30	0.997	5.99	30	1.217
76	11	24.37	30	1.036	6.90	30	0.872
77	11	23.74	25	0.861	8.82	29	0.745
78	11	24.48	24	0.856	8.87	24	1.031
79	11	24.00	25	0.922	7.97	25	0.974
80	11	0.00	0	0.000	0.00	0	0.000
81	11	23.76	27	0.983	6.77	25	1.224
82	11	24.83	17	1.292	7.51	20	0.809
83	11	25.09	19	1.278	6.48	29	1.289
84	11	23.14	26	1.138	7.49	29	2.150
85	11	23.17	19	1.429	7.87	24	1.945
86	11	24.37	30	0.954	6.86	30	1.150
87	11	24.64	25	0.980	6.98	24	1.068
88	11	24.04	29	0.980	6.12	30	1.050
89	11	24.60	29	1.239	6.55	22	1.095
68	12	22.68	5	0.890	6.80	6	1.659
69	12	25.22	30	1.131	8.33	28	1.721
70	12	24.25	27	0.899	8.20	26	1.271
71	12	23.37	25	0.645	8.57	26	1.477
72	12	24.38	24	1.261	9.28	20	1.585
73	12	22.68	29	1.025	7.97	28	0.987
74	12	23.87	31	1.379	8.14	31	1.211
75	12	22.94	31	1.357	8.21	31	1.831
76	12	24.25	31	1.363	8.83	31	1.519
77	12	24.01	19	1.124	9.39	31	1.156
78	12	24.36	28	0.838	8.84	27	1.088
79	12	24.65	30	1.916	9.89	24	1.350
80	12	24.22	27	1.089	8.08	28	1.479
81	12	24.23	31	0.986	8.93	28	1.874
82	12	25.03	29	1.074	7.87	25	2.070
83	12	23.85	24	0.751	7.60	27	1.195
84	12	24.17	29	0.895	8.93	8	1.939
85	12	23.10	21	1.503	10.34	28	1.626
86	12	24.01	31	1.274	9.19	31	3.199
87	12	24.45	30	1.070	7.79	22	1.004
88	12	22.98	31	0.918	8.07	31	1.708
89	12	23.74	24	0.926	6.48	24	0.806

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CDDPA

CODIGO: 01410051 2

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
68	1	0.00	0	0.000	0.00	0	0.000
69	1	21.69	29	1.524	8.10	28	1.893
70	1	24.40	31	1.463	10.75	31	1.466
71	1	23.21	30	1.608	10.77	31	1.672
72	1	22.02	31	1.340	10.37	31	2.749
73	1	24.65	26	2.555	13.62	27	1.677
74	1	24.65	26	2.555	13.62	27	1.677
75	1	24.65	26	2.555	13.62	27	1.677
76	1	24.65	26	2.555	13.62	27	1.677
77	1	24.07	30	1.131	11.00	30	1.568
78	1	22.35	31	1.502	10.78	31	2.042
79	1	23.36	31	1.047	12.14	31	1.576
80	1	24.02	31	0.893	10.70	31	1.627
81	1	21.37	6	0.427	11.62	5	0.918
82	1	22.91	31	1.074	10.25	31	1.752
83	1	23.51	31	1.359	10.33	31	1.602
84	1	21.08	31	1.430	10.88	31	1.520
85	1	21.86	31	1.373	8.95	31	2.711
86	1	21.76	31	1.434	10.42	31	1.073
87	1	0.00	0	0.000	0.00	0	0.000
88	1	23.45	31	1.426	11.47	31	1.600
89	1	22.50	2	0.990	11.80	1	0.000
68	2	0.00	0	0.000	0.00	0	0.000
69	2	21.78	28	1.460	8.16	28	1.291
70	2	24.56	28	1.617	10.73	28	1.187
71	2	22.59	28	1.336	10.85	28	1.508
72	2	21.83	28	2.036	11.38	28	1.349
73	2	24.05	26	1.834	13.12	26	1.495
74	2	24.05	26	1.834	13.12	26	1.495
75	2	24.05	26	1.834	13.12	26	1.495
76	2	24.05	26	1.834	13.12	26	1.495
77	2	23.27	22	1.326	14.07	21	1.773
78	2	23.18	28	1.124	10.12	28	1.269
79	2	23.60	28	1.026	10.18	28	0.919
80	2	23.02	28	1.431	10.81	28	1.420
81	2	22.57	28	0.909	11.93	28	1.369
82	2	22.72	28	0.947	9.74	28	2.215
83	2	23.80	28	1.242	10.57	28	2.027
84	2	21.73	28	1.122	11.58	28	1.504
85	2	23.26	28	1.284	11.55	28	2.304
86	2	21.20	27	1.338	9.36	28	1.636
87	2	0.00	0	0.000	0.00	0	0.000
88	2	23.81	28	0.931	9.95	28	1.871
89	2	21.95	28	1.475	11.61	28	1.394
68	3	0.00	0	0.000	0.00	0	0.000
69	3	22.05	31	1.116	7.94	31	1.960

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CODPA

CODIGO: 01410051 2

ano	mes	FROM(MAX)	N DIAS	D.ESTANDAR	FROM(MIN)	N DIAS	D.ESTANDARD
70	3	24.21	31	1.489	10.24	31	1.239
71	3	23.06	31	1.150	9.24	31	1.281
72	3	21.84	31	1.302	10.72	31	1.158
73	3	24.20	28	1.338	12.10	27	1.470
74	3	24.20	28	1.338	12.10	27	1.470
75	3	24.20	28	1.338	12.10	27	1.470
76	3	24.20	28	1.338	12.10	27	1.470
77	3	24.20	31	1.249	12.29	31	1.803
78	3	22.71	31	1.170	9.45	31	1.678
79	3	23.23	31	0.936	11.70	31	1.496
80	3	24.15	31	1.441	11.56	31	1.345
81	3	22.60	31	1.496	10.58	31	1.824
82	3	22.25	27	1.246	8.49	26	1.439
83	3	23.39	31	1.037	10.65	31	1.718
84	3	23.80	31	8.296	10.54	31	1.808
85	3	23.41	31	1.300	11.05	31	1.683
86	3	22.42	30	1.200	9.77	31	1.503
87	3	20.70	1	0.000	9.80	1	0.000
88	3	23.76	31	1.805	11.03	31	1.874
89	3	21.65	31	0.820	10.27	31	1.061
68	4	0.00	0	0.000	0.00	0	0.000
69	4	22.17	30	1.054	5.13	30	1.254
70	4	24.94	28	0.917	8.23	27	2.036
71	4	22.63	28	0.923	7.26	28	2.861
72	4	22.88	30	1.536	7.89	30	2.030
73	4	23.87	30	1.369	9.73	28	1.102
74	4	23.87	30	1.369	9.73	28	1.102
75	4	23.87	30	1.369	9.73	28	1.102
76	4	23.87	30	1.369	9.73	28	1.102
77	4	23.89	30	1.889	8.26	30	1.156
78	4	22.92	30	1.397	8.26	30	1.418
79	4	24.77	30	1.361	8.50	30	1.332
80	4	24.12	29	2.124	9.53	28	1.372
81	4	23.52	30	1.242	8.78	30	2.342
82	4	23.58	30	1.428	7.86	30	2.047
83	4	23.57	30	0.919	8.22	30	1.297
84	4	24.22	30	8.340	9.13	30	2.366
85	4	23.83	30	1.849	9.73	30	1.759
86	4	22.62	30	1.388	7.46	30	1.622
87	4	25.39	29	1.674	8.95	29	1.422
88	4	23.39	28	1.331	8.80	27	1.721
89	4	22.32	30	0.726	7.54	30	1.818
68	5	0.00	0	0.000	0.00	0	0.000
69	5	25.14	31	2.293	5.58	31	2.852
70	5	23.62	31	1.952	6.55	31	2.940
71	5	24.60	31	1.267	5.53	31	1.253

PROMEDIOS MENSUALES DE TERMIGRAMAS

ESTACION : CODFA

CODIGO: 01410051 2

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
72	5	23.88	31	1.201	7.01	30	1.418
73	5	23.80	31	1.693	8.09	31	1.164
74	5	23.90	31	1.417	8.15	31	1.122
75	5	23.90	31	1.417	8.15	31	1.122
76	5	23.90	31	1.417	8.15	31	1.122
77	5	23.64	31	1.436	7.66	31	1.158
78	5	22.98	28	4.828	7.12	28	1.967
79	5	24.20	31	1.321	6.76	31	1.464
80	5	24.35	31	1.676	8.03	31	1.571
81	5	22.84	31	0.989	6.30	31	1.584
82	5	22.92	31	2.057	5.48	31	2.570
83	5	23.55	31	1.527	6.41	31	1.811
84	5	23.59	31	1.668	7.08	31	1.796
85	5	24.11	31	1.658	7.16	31	1.259
86	5	22.80	31	1.764	5.23	31	2.391
87	5	24.44	31	1.649	7.33	31	1.502
88	5	24.39	31	1.618	7.15	31	2.026
89	5	23.45	31	1.445	6.25	31	1.135
68	6	0.00	0	0.000	0.00	0	0.000
69	6	26.34	30	2.202	7.64	30	2.610
70	6	24.68	28	1.366	5.25	26	1.487
71	6	23.51	30	2.144	6.50	30	2.500
72	6	24.48	30	2.186	7.82	29	2.349
73	6	23.03	30	1.539	5.78	30	1.614
74	6	0.00	0	0.000	0.00	0	0.000
75	6	0.00	0	0.000	0.00	0	0.000
76	6	0.00	0	0.000	0.00	0	0.000
77	6	24.53	30	1.243	8.85	30	1.860
78	6	24.14	30	1.280	7.98	30	1.492
79	6	23.89	29	1.847	7.06	30	1.506
80	6	24.78	30	1.008	7.66	30	1.521
81	6	22.83	30	0.668	5.90	30	1.411
82	6	23.84	30	1.132	6.24	30	1.833
83	6	22.62	30	1.804	5.43	29	1.756
84	6	23.65	30	1.563	8.01	30	2.038
85	6	25.27	29	2.100	8.14	30	1.840
86	6	23.17	29	2.076	3.96	30	1.356
87	6	24.85	30	1.179	6.74	29	2.101
88	6	23.46	30	1.616	4.52	30	1.564
89	6	23.91	30	1.150	6.51	30	1.314
68	7	0.00	0	0.000	0.00	0	0.000
69	7	27.34	31	1.811	7.59	31	1.582
70	7	25.76	31	1.676	7.44	31	1.823
71	7	23.88	31	1.376	4.25	30	1.911
72	7	25.05	27	1.875	9.18	26	1.942
73	7	23.67	31	1.872	8.08	31	1.838

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CODPA

CODIGO: 01410051 2

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
74	7	0.00	0	0.000	0.00	0	0.000
75	7	0.00	0	0.000	0.00	0	0.000
76	7	0.00	0	0.000	0.00	0	0.000
77	7	24.33	24	1.532	8.22	24	1.902
78	7	23.45	31	1.429	6.75	31	1.650
79	7	24.52	31	2.080	7.61	31	2.261
80	7	23.81	27	1.031	8.39	27	1.597
81	7	22.31	31	1.491	4.69	31	1.468
82	7	23.73	31	1.454	5.18	31	1.671
83	7	22.67	31	1.339	4.32	31	2.156
84	7	24.03	31	1.289	6.87	31	1.453
85	7	24.03	31	1.489	5.48	31	1.966
86	7	0.00	0	0.000	0.00	0	0.000
87	7	24.47	31	1.761	8.12	31	3.043
88	7	23.04	31	1.340	4.92	31	1.310
89	7	23.79	31	1.767	6.15	31	2.281
68	8	0.00	0	0.000	0.00	0	0.000
69	8	27.12	31	3.115	9.23	31	5.118
70	8	25.99	31	2.108	6.99	31	2.168
71	8	23.26	29	1.418	4.90	30	1.510
72	8	24.64	25	1.529	7.76	31	1.998
73	8	23.21	31	1.537	6.62	31	1.810
74	8	0.00	0	0.000	0.00	0	0.000
75	8	0.00	0	0.000	0.00	0	0.000
76	8	0.00	0	0.000	0.00	0	0.000
77	8	25.23	3	0.462	8.15	2	0.636
78	8	23.95	31	1.314	8.80	31	1.395
79	8	24.80	31	1.583	7.10	31	1.650
80	8	0.00	0	0.000	0.00	0	0.000
81	8	22.35	31	1.772	5.85	31	2.484
82	8	24.62	31	1.282	7.33	31	1.452
83	8	23.34	31	1.799	6.54	31	1.225
84	8	23.96	31	1.976	7.33	31	1.984
85	8	24.36	31	1.568	6.62	31	1.764
86	8	0.00	0	0.000	0.00	0	0.000
87	8	25.20	31	1.536	6.89	31	1.571
88	8	23.37	31	1.384	5.03	31	1.138
89	8	23.58	31	1.250	5.46	31	1.162
68	9	0.00	0	0.000	0.00	0	0.000
69	9	27.23	30	1.350	8.83	30	1.328
70	9	24.10	30	1.205	5.77	30	1.439
71	9	23.71	15	1.126	5.30	14	0.931
72	9	24.83	24	1.516	9.51	29	1.784
73	9	23.96	30	1.606	8.18	29	1.828
74	9	0.00	0	0.000	0.00	0	0.000
75	9	0.00	0	0.000	0.00	0	0.000

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : CODPA

CODIGO: 01410051 2

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	FROM(MIN)	N DIAS	D.ESTANDARD
76	9	0.00	0	0.000	0.00	0	0.000
77	9	24.91	30	1.652	9.00	30	1.962
78	9	24.20	30	1.037	7.27	30	1.207
79	9	23.97	30	1.134	7.54	30	1.340
80	9	0.00	0	0.000	0.00	0	0.000
81	9	23.41	30	1.901	6.82	30	1.602
82	9	23.74	30	1.538	7.25	30	2.071
83	9	22.46	30	1.983	6.12	30	2.159
84	9	24.34	30	1.357	7.25	30	1.315
85	9	25.04	30	1.491	8.37	30	1.846
86	9	0.00	0	0.000	0.00	0	0.000
87	9	24.83	30	1.842	6.95	30	1.766
88	9	22.69	26	1.262	6.10	26	1.030
89	9	23.07	30	1.294	5.48	30	1.426
68	10	0.00	0	0.000	0.00	0	0.000
69	10	25.68	31	1.238	7.81	31	1.242
70	10	24.38	31	1.549	6.82	31	1.936
71	10	24.13	31	1.034	5.27	31	1.009
72	10	24.85	31	1.263	9.02	30	1.938
73	10	23.84	31	1.148	8.10	31	1.388
74	10	0.00	0	0.000	0.00	0	0.000
75	10	0.00	0	0.000	0.00	0	0.000
76	10	0.00	0	0.000	0.00	0	0.000
77	10	23.55	30	1.182	8.02	29	1.601
78	10	24.15	31	1.011	8.32	31	1.161
79	10	24.26	31	4.287	9.54	31	2.240
80	10	23.65	26	1.290	7.98	26	1.327
81	10	23.67	31	1.263	6.78	31	1.250
82	10	23.44	31	1.078	6.84	31	1.444
83	10	23.49	31	1.575	6.36	31	1.157
84	10	24.39	31	1.376	9.23	31	1.449
85	10	23.85	29	1.394	7.12	31	0.921
86	10	0.00	0	0.000	0.00	0	0.000
87	10	23.87	31	1.623	7.71	31	2.108
88	10	24.11	31	1.497	7.06	31	1.727
89	10	23.75	31	1.313	6.87	31	1.755
68	11	0.00	0	0.000	0.00	0	0.000
69	11	24.38	30	1.601	8.01	30	1.784
70	11	23.38	30	0.875	6.67	30	1.193
71	11	22.82	30	1.428	7.26	30	1.847
72	11	24.66	29	1.129	9.71	28	0.896
73	11	23.83	30	0.944	8.10	30	1.098
74	11	0.00	0	0.000	0.00	0	0.000
75	11	0.00	0	0.000	0.00	0	0.000
76	11	0.00	0	0.000	0.00	0	0.000
77	11	22.82	29	0.914	8.90	28	0.797

PROMEDIOS MENSUALES DE TERMIGRAMAS

ESTACION : CODPA

CODIGO: 01410051 2

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
78	11	24.00	30	1.055	9.79	30	0.922
79	11	23.91	30	1.082	8.67	30	0.875
80	11	23.86	7	0.591	7.57	6	0.339
81	11	22.64	30	0.992	7.42	30	1.019
82	11	24.07	30	1.205	8.43	30	1.311
83	11	23.61	30	1.495	6.83	30	1.337
84	11	23.24	30	1.202	8.79	30	1.982
85	11	22.03	29	1.682	7.91	30	2.051
86	11	0.00	0	0.000	0.00	0	0.000
87	11	24.29	30	1.137	8.22	30	1.429
88	11	23.51	30	0.984	6.79	30	1.092
89	11	24.18	30	1.086	7.65	30	1.314
68	12	21.64	14	1.226	5.63	14	1.656
69	12	25.17	31	1.163	9.01	31	1.936
70	12	23.98	31	1.120	8.63	31	1.220
71	12	22.45	31	1.351	8.59	31	1.358
72	12	24.91	30	1.311	10.84	30	1.735
73	12	22.66	31	0.871	8.75	31	0.911
74	12	0.00	0	0.000	0.00	0	0.000
75	12	0.00	0	0.000	0.00	0	0.000
76	12	0.00	0	0.000	0.00	0	0.000
77	12	23.19	31	1.303	9.34	31	1.033
78	12	23.74	31	1.168	9.68	31	1.275
79	12	24.03	31	2.006	11.23	31	1.754
80	12	23.33	28	1.165	8.31	28	1.460
81	12	24.01	31	0.961	10.35	31	2.094
82	12	24.17	31	1.094	8.84	31	1.813
83	12	22.44	31	1.155	8.45	31	1.238
84	12	24.25	31	1.007	9.78	30	1.465
85	12	21.29	20	1.252	9.26	20	2.075
86	12	0.00	0	0.000	0.00	0	0.000
87	12	24.20	31	1.008	8.87	31	1.274
88	12	22.58	25	0.997	8.27	25	0.975
89	12	23.42	29	1.062	7.64	29	1.148

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1968)
 ESTACION: CDDPA CODIGO : 01410051 2

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1969)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	10	11	10	11	10	00	01	11	01	01	00	01
2	00	00	00	00	00	00	00	00	00	00	00	00	2	11	01	11	10	11	01	10	11	01	11	10	00
3	00	00	00	00	00	00	00	00	00	00	00	00	3	01	10	11	11	01	11	01	11	11	11	10	00
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	11	01	00	00	01	01	01	01	01	10	00
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	11	11	11	11	11	01	11	01	01	10	00
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	11	11	01	01	01	11	01	11	01	10	00
7	00	00	00	00	00	00	00	00	00	00	00	00	7	11	11	11	00	01	11	01	01	01	01	10	10
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	01	01	11	11	10	11	11	01	11	00	00
9	00	00	00	00	00	00	00	00	00	00	00	00	9	11	11	11	10	11	01	00	11	10	11	10	00
10	00	00	00	00	00	00	00	00	00	00	00	00	10	11	11	01	11	11	01	11	01	11	01	00	00
11	00	00	00	00	00	00	00	00	00	00	00	00	11	11	11	10	11	10	11	01	11	11	01	00	00
12	00	00	00	00	00	00	00	00	00	00	00	00	12	01	10	11	10	11	01	10	11	01	01	00	00
13	00	00	00	00	00	00	00	00	00	00	00	00	13	11	10	11	11	11	01	01	11	01	01	00	00
14	00	00	00	00	00	00	00	00	00	00	00	00	14	11	10	11	01	11	01	01	11	00	01	00	01
15	00	00	00	00	00	00	00	00	00	00	00	00	15	11	00	11	11	11	11	11	10	11	01	00	00
16	00	00	00	00	00	00	00	00	00	00	00	00	16	11	10	01	11	00	01	01	01	01	01	00	01
17	00	00	00	00	00	00	00	00	00	00	00	00	17	11	10	11	10	10	01	11	11	01	11	00	00
18	00	00	00	00	00	00	00	00	00	00	00	11	18	01	11	01	11	10	01	11	11	11	01	00	00
19	00	00	00	00	00	00	00	00	00	00	00	11	19	11	10	11	11	11	00	11	11	11	00	00	00
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21	00	00	00	00	00	00	00	00	00	00	00	11	21	11	11	11	11	00	01	11	11	11	00	00	00
22	00	00	00	00	00	00	00	00	00	00	00	11	22	11	11	11	11	00	11	11	10	01	00	00	00
23	00	00	00	00	00	00	00	00	00	00	00	11	23	11	11	01	10	00	11	10	10	11	01	00	00
24	00	00	00	00	00	00	00	00	00	00	00	00	24	01	11	10	11	00	00	11	00	01	00	10	00
25	00	00	00	00	00	00	00	00	00	00	00	01	25	01	11	01	10	00	11	11	10	11	00	01	00
26	00	00	00	00	00	00	00	00	00	00	00	00	26	11	11	11	11	00	11	01	11	01	00	00	00
27	00	00	00	00	00	00	00	00	00	00	00	01	27	01	01	11	00	11	11	01	10	00	00	00	00
28	00	00	00	00	00	00	00	00	00	00	00	11	28	01	11	11	01	01	10	01	10	01	00	00	00
29	00	00	00	00	00	00	00	00	00	00	00	10	29	01	00	10	10	11	11	00	00	01	00	10	00
30	00	00	00	00	00	00	00	00	00	00	00	10	30	00	00	11	11	01	10	01	10	11	00	00	00
31	00	00	00	00	00	00	00	00	00	00	00	10	31	11	00	00	00	11	00	11	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1970)
 ESTACION: CDDPA

CODIGO : 01410051 2

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1971)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	10	00	10	10	10	11	11	00	00	01	00	1	00	10	00	00	00	00	00	00	00	00	10	00
2	00	00	00	00	00	00	01	11	00	00	00	00	2	00	00	00	10	00	00	00	00	00	10	00	00
3	10	00	00	01	00	00	11	01	00	00	00	00	3	00	00	00	10	00	01	00	10	00	10	00	00
4	00	11	10	00	00	00	11	10	00	00	00	10	4	10	00	00	00	01	11	00	00	00	01	10	00
5	00	00	00	00	00	00	01	11	00	00	00	10	5	00	00	00	01	00	01	00	00	00	11	10	00
6	00	00	00	10	00	00	00	01	00	00	00	10	6	00	00	10	00	10	01	00	00	00	00	00	00
7	11	00	11	10	00	00	11	11	00	00	00	00	7	00	00	00	00	00	11	01	00	00	00	00	00
8	00	00	01	01	10	00	11	01	00	00	00	00	8	00	00	10	00	00	10	00	00	00	00	00	00
9	00	10	00	00	10	00	10	11	00	00	00	00	9	00	01	00	00	10	00	00	10	00	00	00	00
10	11	00	00	00	00	00	01	01	00	00	00	00	10	00	01	00	00	00	00	00	10	00	00	00	01
11	10	00	00	10	00	00	01	11	01	00	00	00	11	10	00	00	00	00	00	00	10	00	00	00	00
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13	00	00	00	00	10	10	10	11	00	00	00	01	13	00	00	00	00	00	00	10	01	00	00	00	00
14	00	00	00	00	01	00	01	11	00	00	00	00	14	01	00	00	00	00	10	00	00	00	00	01	10
15	10	00	00	00	01	00	11	11	10	01	00	00	15	01	00	00	00	00	01	10	00	00	00	00	00
16	00	00	00	01	00	10	11	11	00	00	00	10	16	01	00	00	00	00	01	01	00	10	00	00	00
17	10	00	00	10	10	00	01	11	00	00	00	00	17	11	00	00	00	10	00	00	10	00	00	00	00
18	00	00	00	01	00	10	11	01	00	00	00	01	18	01	00	00	00	00	11	00	00	00	00	00	00
19	00	00	00	01	01	10	01	00	00	11	00	00	19	00	00	00	00	00	01	01	00	00	00	10	00
20	10	00	01	01	00	00	11	11	00	01	00	01	20	00	00	00	00	00	11	00	10	00	00	10	00
21	10	00	00	00	11	00	11	01	00	01	00	00	21	00	00	00	00	00	10	00	00	00	00	00	01
22	00	00	10	00	00	00	01	10	10	01	00	00	22	00	00	00	00	00	10	00	11	00	00	10	01
23	00	01	00	00	00	01	11	11	00	00	00	00	23	00	00	01	00	00	10	00	00	00	10	01	10
24	00	00	00	10	00	01	01	11	00	01	00	01	24	00	00	01	00	00	00	00	00	00	00	00	11
25	00	00	00	00	00	01	01	10	00	00	00	00	25	11	00	01	00	01	10	00	00	10	00	00	10
26	00	00	00	00	10	01	01	00	00	00	00	00	26	01	01	00	00	00	10	00	00	00	00	00	10
27	01	00	01	00	10	01	01	10	00	00	00	00	27	00	00	01	00	01	00	00	00	00	10	00	00
28	01	00	00	00	10	00	01	00	10	00	00	00	28	01	10	01	10	00	00	00	00	00	00	00	00
29	00	00	00	00	00	00	11	00	00	00	00	00	29	01	00	01	00	11	00	10	00	00	00	00	11
30	00	00	00	01	01	00	11	00	10	00	00	00	30	00	00	01	01	00	00	01	00	00	00	00	00
31	00	00	10	00	00	00	11	10	00	00	00	01	31	00	00	00	00	01	00	00	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1972)

ESTACION: CDDPA

CODIGO : 01410051

2

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1973)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	01	01	00	00	00	00	00	00	00	00	00	01	1	00	00	00	00	00	00	00	00	00	00		
2	10	11	00	00	00	00	00	00	00	00	10	01	2	00	10	01	00	00	11	01	00	00	01	00	00
3	00	00	00	00	00	00	00	00	00	10	10	00	3	00	00	00	00	00	00	00	00	00	00	00	00
4	00	00	00	00	00	00	00	00	00	10	10	10	4	01	01	00	11	00	00	10	00	00	00	00	00
5	00	00	00	00	00	00	00	00	00	00	00	01	5	01	00	00	01	00	00	00	00	00	01	00	00
6	01	10	00	00	11	00	00	00	00	00	00	00	6	00	00	01	00	10	11	00	00	00	00	00	01
7	00	10	10	00	00	01	00	00	00	01	10	01	7	00	00	10	00	10	11	01	00	00	00	00	00
8	01	10	00	00	00	00	00	00	00	00	00	11	8	00	00	01	00	00	00	01	00	00	00	00	00
9	11	00	00	00	00	00	00	00	00	00	01	00	9	01	10	00	00	00	01	01	00	01	00	00	00
10	01	01	10	00	00	00	00	00	00	00	00	01	10	10	00	00	00	00	11	01	00	10	00	11	01
11	11	00	00	10	10	00	00	00	00	00	01	00	11	00	00	00	00	00	10	01	00	00	00	00	00
12	10	10	01	00	00	10	00	00	00	00	01	01	12	01	10	10	00	01	00	01	10	00	00	00	00
13	00	10	00	00	01	00	00	00	00	00	00	01	13	00	00	00	00	00	01	01	00	00	00	00	00
14	01	10	00	01	01	10	00	00	00	00	00	01	14	00	00	00	01	11	00	01	00	00	00	00	10
15	00	10	00	00	00	10	00	00	00	00	00	10	15	00	00	00	00	01	00	10	00	01	10	00	00
16	00	10	00	00	00	10	00	00	00	00	00	01	16	01	00	00	10	01	00	01	00	00	01	00	00
17	00	00	00	00	10	00	00	00	00	01	00	00	17	01	00	00	00	00	00	00	00	00	00	00	00
18	01	00	00	00	10	01	00	00	00	00	00	10	18	01	00	00	00	10	01	00	00	00	01	00	00
19	01	00	00	10	10	00	00	00	00	00	00	00	19	00	00	00	01	00	00	10	00	00	00	00	00
20	01	00	10	00	10	00	00	00	00	00	01	00	20	01	00	11	00	00	10	10	01	00	00	00	01
21	01	00	00	00	00	00	00	00	00	00	00	00	21	00	00	01	00	00	00	11	00	00	01	01	00
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23	01	00	00	00	10	00	00	00	00	00	01	00	23	00	00	10	00	00	11	00	00	00	00	00	10
24	11	00	00	00	00	00	00	00	00	00	00	00	24	01	10	00	00	00	01	01	00	00	00	00	00
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30	00	00	00	00	00	01	00	00	00	00	00	00	30	00	00	00	00	10	10	11	01	00	00	00	00
31	01	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	10	00	00	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1974)

ESTACION: CDDPA

CODIGO : 01410051

2

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1975)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	01	10	00	11	11	00	00	00	00	00	00	00	1	00	10	11	10	00	00	00	00	00	00		
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4	01	11	00	10	01	00	00	00	00	00	00	00	4	11	10	00	01	00	00	00	00	00	00		
5	01	10	00	01	00	00	00	00	00	00	00	00	5	11	10	00	01	10	00	00	00	00	00		
6	11	11	01	00	01	00	00	00	00	00	00	00	6	11	11	11	01	10	00	00	00	00	00		
7	11	01	01	01	11	00	00	00	00	00	00	00	7	01	01	01	01	10	00	00	00	00	00		
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9	01	01	00	01	01	00	00	00	00	00	00	00	9	01	01	00	00	00	00	00	00	00	00		
10	10	01	01	01	01	00	00	00	00	00	00	00	10	11	01	00	01	01	00	00	00	00	00		
11	00	00	00	01	00	00	00	00	00	00	00	00	11	01	00	00	01	00	00	00	00	00	00		
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14	01	00	01	01	11	00	00	00	00	00	00	00	14	01	00	00	01	11	00	00	00	00	00		
15	01	00	11	11	11	00	00	00	00	00	00	00	15	01	00	10	01	01	00	00	00	00	00		
16	01	11	01	01	01	00	00	00	00	00	00	00	16	00	00	10	11	01	00	00	00	00	00		
17	11	00	01	01	01	00	00	00	00	00	00	00	17	00	10	00	00	01	00	00	00	00	00		
18	01	10	11	00	01	00	00	00	00	00	00	00	18	01	00	10	00	01	00	00	00	00	00		
19	00	10	11	00	10	00	00	00	00	00	00	00	19	00	11	10	00	00	00	00	00	00	00		
20	11	11	11	10	10	00	00	00	00	00	00	00	20	00	10	11	01	11	00	00	00	00	00		
21	00	00	11	10	00	00	00	00	00	00	00	00	21	00	00	11	01	10	00	00	00	00	00		
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23	10	00	01	00	00	00	00	00	00	00	00	00	23	11	11	00	00	00	00	00	00	00	00		
24	10	10	01	00	00	00	00	00	00	00	00	00	24	11	10	00	00	00	00	00	00	00	00		
25	10	00	11	10	00	00	00	00	00	00	00	00	25	11	00	00	10	00	00	00	00	00	00		
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28	00	00	01	11	00	00	00	00	00	00	00	00	28	00	10	10	00	00	00	00	00	00	00		
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30	11	00	10	00	11	00	00	00	00	00	00	00	30	01	00	10	11	10	00	00	00	00	00		
31	10	00	11	00	00	00	00	00	00	00	00	00	31	01	00	00	00	01	00	00	00	00	00		

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1976)

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1977)

ESTACION: CDDFA

CODIGO : 01410051

2

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	
1	01	11	01	00	01	00	00	00	00	00	00	00	1	00	00	00	10	10	00	00	00	00	00	00	00	
2	11	11	01	00	11	00	00	00	00	00	00	00	2	00	00	00	00	01	10	10	00	00	00	00	10	
3	11	11	10	10	11	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	00	10	10	00	00
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7	11	01	01	00	10	00	00	00	00	00	00	00	7	10	00	10	00	10	01	00	00	00	01	00	00	00
8	11	01	11	00	10	00	00	00	00	00	00	00	8	00	00	00	00	10	00	00	00	00	00	10	00	10
9	11	01	01	00	10	00	00	00	00	00	00	00	9	01	00	00	00	00	00	00	00	00	01	10	00	00
10	10	01	01	01	11	00	00	00	00	00	00	00	10	00	00	00	00	00	01	00	00	00	00	00	00	00
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16	00	10	11	11	00	00	00	00	00	00	00	00	16	00	00	00	00	00	10	01	00	01	00	00	00	00
17	01	10	10	01	01	00	00	00	00	00	00	00	17	00	00	00	00	01	00	00	00	00	01	00	00	00
18	00	11	01	01	00	00	00	00	00	00	00	00	18	00	10	00	00	11	00	00	00	00	00	00	10	00
19	01	00	00	01	00	00	00	00	00	00	00	00	19	00	00	00	00	10	00	00	00	00	00	00	00	10
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21	00	00	11	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	10	01	00	00	10	00	00	00
22	00	01	00	00	11	00	00	00	00	00	00	00	22	00	00	00	10	00	00	00	00	00	00	01	00	00
23	01	00	00	10	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	00	00	00	00	00
24	11	11	00	01	00	00	00	00	00	00	00	00	24	00	00	00	01	00	01	01	00	01	00	00	10	00
25	01	00	01	01	00	00	00	00	00	00	00	00	25	01	00	00	01	00	00	00	00	00	10	00	10	00
26	00	01	01	00	00	00	00	00	00	00	00	00	26	00	00	00	00	00	00	00	00	00	00	00	00	10
27	00	01	01	10	00	00	00	00	00	00	00	00	27	00	00	00	00	00	00	00	00	00	00	00	00	00
28	00	11	00	10	10	00	00	00	00	00	00	00	28	00	00	00	00	00	01	00	00	10	10	00	10	00
29	11	00	00	01	01	00	00	00	00	00	00	00	29	00	00	00	11	00	00	00	00	00	10	00	00	00
30	11	00	00	01	10	00	00	00	00	00	00	00	30	00	00	00	00	11	00	00	00	00	00	00	00	00
31	10	00	10	00	11	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	00	00	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1978)

ESTACION: CDDPA

CODIGO : 01410051

2

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1979)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	
1	11	00	00	00	01	01	11	10	00	00	00	00	1	01	00	00	00	00	01	00	00	01	01	00	00	
2	01	10	10	00	00	01	10	10	00	10	00	00	2	01	00	00	10	00	00	00	00	00	01	00	00	00
3	10	10	01	01	00	01	10	00	00	01	00	00	3	00	00	01	10	00	01	00	00	00	00	00	01	00
4	10	00	10	10	00	00	01	10	00	00	00	00	4	00	00	01	00	00	00	00	00	00	01	01	00	00
5	00	00	10	10	00	00	01	00	01	10	00	00	5	00	00	01	00	00	00	01	00	01	00	00	00	00
6	10	00	00	10	00	01	00	10	10	10	00	00	6	00	00	00	01	01	00	00	00	00	01	00	10	00
7	00	10	00	00	01	01	00	10	00	00	00	00	7	00	00	00	01	00	00	00	00	00	00	00	10	00
8	00	00	00	10	00	10	00	00	00	00	00	00	8	01	00	01	00	11	01	00	00	00	00	00	00	00
9	00	00	00	00	00	10	00	00	01	00	00	00	9	00	01	00	00	00	00	00	00	01	00	00	00	00
10	00	10	00	10	10	00	10	00	00	00	00	00	10	00	00	01	00	00	00	00	00	00	00	00	00	01
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12	10	00	00	01	10	01	00	00	10	00	10	00	12	00	00	00	00	00	00	10	00	10	00	01	00	00
13	00	00	00	00	00	00	00	00	00	01	01	00	13	00	00	00	00	10	00	00	00	00	00	00	01	00
14	00	10	10	00	00	10	00	00	00	00	00	00	14	00	00	00	10	00	00	00	00	00	01	00	00	00
15	00	00	00	10	00	10	00	00	00	00	00	00	15	00	00	00	00	00	10	00	10	00	01	10	00	00
16	00	00	11	10	00	10	10	00	00	00	00	00	16	00	00	00	00	00	10	00	00	00	00	00	00	01
17	00	00	01	10	00	01	00	01	10	00	00	11	17	00	00	00	00	00	00	00	00	00	10	00	00	01
18	00	10	10	00	00	01	01	11	11	00	00	00	18	00	00	00	00	00	00	00	00	00	00	00	00	00
19	00	00	10	00	11	00	10	10	10	00	00	01	19	00	10	00	00	00	00	00	00	00	11	01	00	00
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21	00	00	00	10	10	00	01	10	00	10	00	00	21	01	10	00	00	00	01	00	01	01	01	01	00	00
22	00	00	01	01	10	01	00	10	00	00	00	10	22	00	00	00	00	00	01	00	00	01	01	01	00	00
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25	00	00	10	00	01	00	10	00	00	00	01	01	25	00	01	00	00	00	01	00	01	00	00	00	01	00
26	00	10	10	00	01	10	00	10	00	00	00	00	26	00	00	00	00	01	00	00	00	01	01	00	00	00
27	11	00	10	10	01	00	01	00	00	00	10	00	27	00	00	00	00	01	00	00	00	01	00	00	00	00
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(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1980)
 ESTACION: EDDPA CODIGO : 01410051 2

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1981)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	01	00	00	00	00	00	00	1	00	00	01	00	00	00	01	00	00	00		
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3	10	00	01	00	00	00	00	00	00	00	00	00	3	00	10	00	00	00	00	01	10	00	00	00	
4	00	00	00	00	00	01	00	00	00	00	00	00	4	00	00	00	00	00	00	00	10	00	00	00	
5	00	00	00	00	00	00	01	00	00	01	00	00	5	00	00	00	00	00	01	10	10	00	00	00	
6	00	00	00	00	00	00	00	00	00	00	00	00	6	00	00	10	10	00	01	01	10	00	00	00	
7	00	00	00	00	00	01	10	00	00	00	00	00	7	00	00	01	00	00	01	00	10	00	00	00	
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9	00	00	00	00	00	00	01	00	00	00	00	10	9	00	00	10	01	00	11	00	00	00	00	00	
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12	00	00	00	11	00	00	00	00	00	00	00	00	12	00	10	11	00	00	11	00	00	10	00	00	
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14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	10	00	10	00	11	00	00	00	00	00	
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16	00	00	00	00	01	00	00	00	00	00	00	00	16	00	00	00	10	00	00	10	00	00	00	00	
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	11	00	00	00	00	01	00	00	10	01	
18	00	00	00	00	01	00	00	00	00	00	00	00	18	00	00	10	00	00	11	00	01	00	00	01	
19	00	00	00	11	01	00	00	00	00	00	00	10	19	00	00	10	10	00	00	01	01	00	10	00	
20	00	00	00	00	10	00	00	00	00	00	00	00	20	00	00	01	00	11	00	10	01	00	10	01	
21	00	00	00	10	00	00	00	00	00	00	00	01	21	00	00	10	10	10	01	10	11	00	00	00	
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{1 1} : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1982)
 ESTACION: CRIFA

CDPISD : 01410051 2

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1983)

DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
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2	1	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	1	0	0	1	1	0	1	0	
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4	0	1	0	0	0	1	0	0	0	1	0	0	4	1	0	1	1	1	1	0	0	1	1	0	
5	0	1	0	0	0	0	0	1	1	1	0	1	5	0	0	0	0	1	0	0	1	1	1	0	
6	0	0	0	0	0	0	0	1	0	0	0	1	6	0	0	0	0	0	1	0	0	0	1	1	
7	0	1	0	1	0	0	0	0	0	0	0	1	7	0	1	0	0	1	0	1	1	1	1	0	
8	0	1	0	1	0	0	0	1	0	0	0	0	8	0	1	1	0	0	1	1	1	0	0	0	
9	0	1	0	1	0	1	0	0	0	0	0	0	9	0	1	0	0	1	1	1	0	0	1	0	
10	0	0	1	1	0	0	0	1	0	0	0	0	10	1	0	1	0	0	1	1	1	0	1	0	
11	0	0	1	0	0	1	0	0	1	0	0	1	11	1	0	1	0	0	1	0	0	1	0	0	
12	0	0	1	0	0	1	0	0	1	0	0	1	12	0	0	0	0	0	1	1	0	1	0	0	
13	0	0	0	0	1	0	0	1	0	1	1	0	13	0	1	0	0	1	0	0	0	0	1	0	
14	0	0	0	0	1	0	0	1	0	0	0	0	14	0	0	1	0	0	0	0	0	1	0	0	
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16	0	0	1	0	0	0	0	0	0	0	0	0	16	0	0	1	0	0	1	1	1	1	0	0	
17	0	1	0	0	0	1	1	0	0	1	0	0	17	1	0	0	0	1	0	1	0	0	1	0	
18	0	0	0	0	0	0	1	0	0	0	0	1	18	1	0	1	0	0	0	0	1	1	0	0	
19	0	0	0	0	0	1	0	0	0	0	0	1	19	0	0	1	1	0	0	1	0	0	1	0	
20	0	1	0	0	0	0	0	1	0	0	0	1	20	0	0	1	0	0	1	0	0	1	1	0	
21	1	0	0	0	0	1	0	0	1	0	0	1	21	0	0	0	0	0	1	0	0	1	0	0	
22	0	0	1	0	0	0	0	0	0	0	0	0	22	0	0	1	0	0	0	0	0	1	0	0	
23	0	0	0	0	0	0	1	0	1	0	0	0	23	0	0	1	0	0	0	0	0	1	0	0	
24	0	0	0	0	1	0	0	1	0	0	0	1	24	1	0	0	0	0	0	1	0	0	1	0	
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26	0	0	0	0	1	0	0	1	1	0	0	1	26	0	0	0	0	1	1	1	0	0	0	1	
27	0	1	0	0	0	0	1	1	0	1	1	0	27	1	0	0	0	1	1	0	1	1	1	0	
28	0	0	0	0	0	0	0	1	0	1	0	0	28	0	0	0	0	1	1	0	1	1	1	1	
29	0	0	0	0	0	0	0	1	1	1	1	0	29	1	0	0	0	1	1	0	1	1	0	1	
30	0	0	0	0	0	0	1	1	0	0	1	1	30	1	0	0	0	1	1	0	0	1	1	1	
31	0	0	0	0	0	0	0	1	0	0	0	1	31	0	0	0	0	0	1	0	0	1	0	1	

{1 1} : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1984)

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1985)

ESTACION: CDFPA

CODIGO : 01410051 2

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
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2	01	00	10	00	00	01	00	00	11	00	00	11	2	00	00	01	00	00	00	01	01	00	00	10	01
3	00	10	00	01	01	01	00	10	10	00	00	01	3	00	00	00	00	00	00	01	01	00	00	01	00
4	00	00	00	00	01	00	00	11	01	01	00	01	4	00	00	00	00	00	00	00	01	00	00	00	00
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7	00	01	10	00	10	00	01	10	01	00	00	01	7	01	00	10	00	00	10	11	01	00	00	00	00
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9	00	00	11	01	00	01	00	00	01	00	00	01	9	00	01	00	00	00	00	10	10	10	10	00	00
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13	10	10	00	10	10	00	01	01	00	00	00	11	13	10	01	00	00	00	01	01	01	01	00	00	10
14	00	10	00	01	10	00	01	01	00	00	00	01	14	00	00	00	00	00	01	01	01	01	00	00	10
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17	00	00	10	01	11	00	00	00	00	00	00	01	17	00	00	00	00	01	01	00	01	11	00	00	00
18	00	10	11	11	01	01	00	00	00	00	00	00	18	00	00	00	00	00	10	01	00	10	00	11	00
19	10	00	00	11	00	00	01	11	00	00	10	01	19	00	00	00	00	01	00	11	11	10	00	00	00
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21	10	00	00	01	00	00	10	00	00	00	00	01	21	00	00	10	00	00	10	11	01	11	00	10	11
22	00	11	00	01	00	01	00	10	01	00	00	01	22	10	00	10	00	00	00	01	11	01	00	10	10
23	01	10	00	01	01	01	00	10	00	00	10	01	23	00	00	01	01	00	01	01	11	01	00	10	00
24	00	00	00	01	00	11	00	10	00	00	00	01	24	00	00	00	00	00	00	11	01	00	00	00	00
25	00	00	00	10	10	10	00	00	01	00	00	00	25	00	00	00	01	00	11	00	01	01	00	11	00
26	00	00	01	01	00	10	00	01	00	01	00	01	26	00	00	01	00	10	11	00	11	01	00	10	10
27	00	00	11	11	00	01	00	10	00	00	00	00	27	00	00	00	10	01	01	01	00	01	00	00	10
28	00	00	00	01	10	01	00	00	00	00	00	00	28	00	10	00	01	00	11	01	00	01	00	00	00
29	10	00	00	01	01	00	00	10	00	00	10	00	29	00	00	00	00	00	10	11	01	01	00	01	00
30	11	00	10	01	01	00	00	00	00	00	00	00	30	10	00	00	10	00	01	01	01	00	00	01	10
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	01	00	00	00	11	01	00	00	00	11

{1 1} : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1986)

ESTACION: CDPA

CDDIGD : 01410051

2

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1987)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	1 0	1 0	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 1	0 0	0 0	0 0	
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	2	0 0	0 0	0 0	0 0	0 1	0 0	1 0	1 1	0 0	0 0	0 0	
3	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 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	1 0	
4	0 0	1 1	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	4	0 0	0 0	0 0	0 1	0 1	0 0	0 1	1 0	1 0	0 0	0 0	
5	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5	0 0	0 0	0 0	0 1	0 1	0 0	0 1	1 0	0 0	0 0	1 0	
6	1 0	0 0	0 0	0 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	6	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	1 0	
7	1 0	1 0	0 0	0 0	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	7	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	1 0	0 0	0 0	
8	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	8	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 1	
9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	0 0	0 0	0 0	0 1	0 0	0 0	0 0	1 1	0 0	1 0	0 0	
10	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	10	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	1 0	0 0	
11	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	11	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 1	0 0	0 0	
12	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	12	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	
13	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	13	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	1 1	0 0	
14	1 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	14	0 0	0 0	0 0	0 0	0 1	0 1	1 0	0 0	1 0	0 0	0 0	
15	0 0	1 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	15	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	1 1	1 1	0 0	
16	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	16	0 0	0 0	0 0	0 0	0 1	0 1	0 1	0 0	1 0	0 0	0 0	
17	1 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	17	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 1	1 0	0 0	
18	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	18	0 0	0 0	0 0	0 0	0 1	0 0	0 1	0 0	0 0	1 0	0 0	
19	0 1	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	19	0 0	0 0	0 0	0 1	0 1	0 0	0 1	0 1	0 1	0 0	0 0	
20	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	20	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 1	1 1	1 1	0 0	
21	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	21	0 0	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 1	0 1	
22	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	22	0 0	0 0	0 0	0 0	0 1	0 0	1 1	0 1	0 0	0 0	1 0	
23	0 0	0 0	0 0	1 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	23	0 0	0 0	0 0	0 0	0 0	0 1	0 1	0 0	0 1	1 0	0 0	
24	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	24	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 1	0 1	0 1	0 0	
25	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	25	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 1	0 0	0 0	
26	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	26	0 0	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 1	0 0	0 1	
27	0 0	0 0	0 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	27	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 1	0 0	0 0	
28	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	28	0 0	0 0	0 0	0 0	0 0	0 0	1 0	1 0	1 0	0 0	0 1	
29	0 0	0 0	0 0	0 0	1 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	29	0 0	0 0	0 0	0 0	1 0	0 0	1 1	0 0	0 0	0 0	0 1	
30	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	30	0 0	0 0	0 0	0 0	0 0	1 1	1 0	0 0	0 0	0 0	1 1	
31	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	31	0 0	0 0	1 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1988)

ESTACION: EODFA

CODIGO : 01410051

2

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1989)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	
1	00	00	00	00	00	00	10	00	00	10	00	00	1	00	00	00	00	00	01	01	00	00	00	01	00	
2	00	00	01	00	00	00	00	00	10	11	10	00	2	00	00	00	10	01	00	01	00	10	00	00	00	
3	00	00	00	01	00	00	10	00	10	11	00	00	3	00	00	00	00	00	00	11	00	10	00	00	00	
4	01	00	01	00	00	00	10	00	00	10	00	00	4	00	10	10	00	00	00	00	00	00	00	00	10	
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	10	00	00	00	00	00	00	00	10	00	00	
6	00	00	00	00	10	00	10	00	00	10	10	00	6	00	10	00	00	00	10	00	00	00	00	00	00	
7	00	00	00	00	00	10	00	10	10	00	00	00	7	00	10	00	00	00	00	00	00	00	00	00	00	
8	01	00	11	00	00	00	00	10	10	10	00	00	8	00	00	00	00	00	00	00	00	00	00	00	01	00
9	10	00	11	10	00	00	00	10	00	00	00	00	9	00	00	00	10	00	00	00	00	00	01	00	01	00
10	00	01	00	00	00	00	01	00	00	00	00	00	10	00	00	00	00	00	01	00	00	00	00	00	01	00
11	00	00	00	00	00	00	00	00	00	00	10	00	11	00	00	00	00	00	00	00	00	00	00	00	00	00
12	00	00	00	01	00	00	00	10	00	11	00	00	12	00	00	01	00	00	00	01	00	00	00	00	01	10
13	01	00	01	01	00	00	00	00	00	00	10	00	13	00	00	00	00	00	10	00	00	00	00	00	01	00
14	00	01	00	01	00	00	00	00	00	10	00	00	14	00	00	00	00	00	10	00	00	00	10	00	00	00
15	11	00	10	00	00	10	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	00	01	00	00	00
16	11	00	10	00	00	10	10	10	11	00	00	00	16	00	00	00	00	00	00	01	00	00	00	00	00	01
17	10	00	00	00	00	00	01	00	00	10	00	00	17	00	00	00	00	00	00	00	00	00	00	01	00	00
18	00	00	00	00	10	00	00	00	00	10	00	00	18	00	00	00	00	00	00	00	00	01	00	01	01	00
19	01	00	10	00	00	00	00	00	00	00	10	00	19	00	01	10	00	00	00	00	00	00	00	01	00	00
20	00	00	00	00	00	00	00	00	00	10	00	00	20	00	00	00	00	00	00	01	00	00	01	00	00	00
21	01	00	00	00	00	00	00	10	00	10	00	00	21	00	00	00	00	10	00	00	00	00	00	00	00	00
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	01	00	00	00	00	00	00	00	00	00
23	00	00	00	00	10	10	01	00	01	10	10	00	23	00	00	00	01	00	00	00	00	11	00	00	00	00
24	00	11	00	11	00	00	00	00	00	10	00	00	24	00	00	00	00	00	00	00	00	00	00	00	00	00
25	00	00	00	00	10	00	00	00	00	00	00	00	25	00	01	00	00	00	10	00	00	00	00	00	00	00
26	00	00	00	00	01	00	10	00	00	00	00	00	26	00	00	00	00	00	00	01	00	00	01	00	00	01
27	00	01	00	00	10	00	00	00	00	00	00	00	27	00	00	00	00	10	01	00	00	00	01	00	00	00
28	00	01	00	00	10	00	00	10	00	00	00	00	28	00	00	00	00	00	01	00	00	00	00	00	00	00
29	00	00	00	00	00	00	00	10	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	01	00	10	00	00	00	00	10	00	00	30	00	00	00	00	00	01	00	00	00	00	00	00	00
31	00	00	00	00	00	00	00	00	00	10	00	00	31	00	00	00	00	00	00	00	00	00	01	00	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.12 Estación Pueblo Nuevo P.L.

3.12.1 Generalidades

La estación se encuentra ubicada en la Latitud Sur $19^{\circ} 52'$ y Longitud Oeste $69^{\circ} 37'$ a una altura de 3920 msnm.

Posee estadística de lecturas directas a partir de Octubre de 1982 y registro termográficos desde Septiembre de 1982.

3.12.2 Información existente

La tabla 31 muestra la información existente de la estación de lecturas directas, la que totaliza 89 meses. La tabla 32 muestra la información existente de termogramas la que totaliza 88 meses.

3.12.3 Información traducida

En esta estación existe un periodo de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero de 1986 a Diciembre de 1989, (48 meses) y registros termográficos desde Septiembre de 1982 a Noviembre de 1984 (27 meses). Por lo tanto la traducción por parte del consultor abarca 41 meses de lecturas directas y 61 meses de registros termográficos.

3.12.4 Validación

Se ha efectuado una entre las lecturas del higrotermógrafo y las lecturas directas en el periodo que les es común, usando el periodo total de información existente.

Los factores de corrección aplicados a los termogramas se muestran en la tabla 33.

En esta estación se detectó valores de lecturas mínimas en que el signo figura como positivo y es calaramente negativo, la tabla 34 muestra las fechas en cuestión.

Después de aplicadas los factores de corrección mediante un proceso computacional se ha descartado todos los valores de lecturas directas máximas y mínimas fuera del rango ± 1.9 . Se incluye un listado con el detalle de los valores eliminados.

Ademas se ha comparado las lecturas directas con los valores de termogramas traducidos con anterioridad por la DGA, en el periodo anterior a Diciembre 1984, con lo cual se han eliminado los valores de lecturas directas que al compararlos

con los valores de los termogramas previamente ingresados por la DGA, dan una diferencia mayor a ± 1.9 .

Se incluye un listado de los promedios mensuales y desviaciones estandar para las lecturas directas y termográficas en todo el periodo.

ESTACION PUEBLO NUEVO

TABLA 31

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
1/10/82	2/5/87	1/10/82	1/1/90
4/5/87	23/5/87		
28/5/87	1/1/90		

ESTACION PUEBLO NUEVO

TABLA 32

TERMOGRAMAS

DESDE	HASTA
12/9/82	12/1/87
15/1/87	22/1/87
24/1/87	17/2/87
19/2/87	28/2/87
2/3/87	12/3/87
19/3/87	10/6/87
15/6/87	21/5/88
23/5/88	31/7/89
2/8/89	1/1/90
2/8/89	

TABLA 33

FACTORES DE CORRECCION

DESDE	HASTA	FC
04 02 85	11 02 85	-1.0
23 12 85	30 12 85	+1.0
18 08 86	25 08 86	+1.0
15 02 88	22 02 88	-1.3
26 09 88	03 10 88	-1.5
31 10 88	07 11 88	-1.0
14 11 88	21 11 88	-1.0
13 03 89	20 03 89	+1.0
14 08 89	21 08 89	+1.0

TABLA 34

LECTURAS DIRECTAS MINIMAS CAMBIADAS DE SIGNO

DESDE	HASTA
23/11/84	30/11/84
14/03/85	15/03/85
05/03/86	05/03/86
29/09/86	30/09/86
02/11/86	02/11/86
11/01/87	12/01/87
28/07/88	28/07/88
05/09/88	05/09/88
30/10/88	31/10/88
16/06/89	16/06/89
28/07/89	28/07/89

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : PUEBLO NUEVO (P.LIRIMA) CODIGO: 01730053 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
82	1	0.00	0	0.000	0.00	0	0.000
83	1	15.68	26	1.328	-4.75	26	1.984
84	1	10.83	20	2.855	-0.14	20	1.976
85	1	12.92	30	1.851	-4.40	28	3.777
86	1	14.33	31	2.463	-1.08	30	2.875
87	1	12.83	31	1.694	2.48	31	2.318
88	1	15.75	30	2.487	0.33	31	2.689
89	1	14.67	28	1.419	-4.29	30	2.399
82	2	0.00	0	0.000	0.00	0	0.000
83	2	16.16	27	2.661	-3.03	26	2.469
84	2	10.93	14	1.685	1.24	15	2.547
85	2	13.39	28	1.611	1.35	23	2.673
86	2	14.00	28	1.873	-2.23	27	2.745
87	2	14.91	28	1.981	-3.47	27	3.055
88	2	15.20	28	0.838	-4.38	28	3.187
89	2	14.32	25	2.048	-0.99	26	2.497
82	3	0.00	0	0.000	0.00	0	0.000
83	3	16.65	23	2.344	-3.74	21	3.346
84	3	13.60	30	1.441	-0.63	31	2.225
85	3	13.82	28	1.587	-1.93	31	3.298
86	3	14.25	31	2.049	-2.21	30	2.373
87	3	13.43	30	1.950	-4.11	30	2.230
88	3	14.16	31	3.126	-1.83	28	2.699
89	3	14.06	29	1.416	-4.06	27	3.322
82	4	0.00	0	0.000	0.00	0	0.000
83	4	14.78	20	2.198	-4.93	24	2.607
84	4	13.73	28	2.060	-5.70	22	2.444
85	4	13.63	28	1.992	-4.67	25	3.092
86	4	13.15	30	1.721	-6.20	28	2.667
87	4	13.37	29	2.044	-7.22	28	2.143
88	4	14.52	29	2.123	-4.93	29	3.493
89	4	12.83	29	2.316	-5.06	28	2.606
82	5	0.00	0	0.000	0.00	0	0.000
83	5	10.85	24	2.140	-6.83	28	3.232
84	5	12.32	31	2.404	-7.43	30	2.385
85	5	12.73	23	1.580	-7.63	23	2.254
86	5	9.95	31	2.307	-10.32	29	2.732
87	5	10.40	27	2.226	-6.02	26	3.198
88	5	10.91	30	2.147	-7.09	27	2.440
89	5	11.86	28	2.372	-8.95	30	2.045
82	6	0.00	0	0.000	0.00	0	0.000
83	6	7.09	29	2.162	-7.37	26	5.090

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : PUEBLO NUEVO (P.LIRIMA) CODIGO: 01730053 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDARD
84	6	6.97	30	2.740	-7.52	28	3.312
85	6	9.25	26	1.866	-9.64	21	1.402
86	6	10.39	30	2.160	-11.32	29	2.420
87	6	9.89	30	2.229	-8.37	25	3.425
88	6	10.49	29	2.493	-10.14	29	2.296
89	6	9.79	28	1.272	-10.31	27	2.644
82	7	0.00	0	0.000	0.00	0	0.000
83	7	7.43	30	2.360	-8.38	25	3.423
84	7	7.65	22	1.457	-9.98	22	2.015
85	7	8.58	24	3.617	-12.09	25	2.568
86	7	9.24	31	2.173	-11.79	30	2.843
87	7	7.93	30	3.375	-7.14	30	2.324
88	7	11.46	31	2.744	-9.96	28	2.800
89	7	9.44	28	1.929	-9.86	28	2.894
82	8	0.00	0	0.000	0.00	0	0.000
83	8	11.50	30	1.869	-7.95	28	3.517
84	8	7.02	25	1.614	-9.19	29	2.520
85	8	11.41	29	2.719	-8.62	31	2.376
86	8	9.93	30	3.242	-8.82	29	2.481
87	8	11.62	28	1.737	-9.67	31	2.575
88	8	13.37	27	2.235	-10.23	27	1.967
89	8	11.12	30	2.049	-10.31	27	3.178
82	9	0.00	0	0.000	0.00	0	0.000
83	9	9.23	29	3.101	-5.16	28	2.557
84	9	10.17	26	1.923	-10.52	26	2.676
85	9	11.47	30	1.548	-7.89	28	3.659
86	9	11.75	30	2.295	-8.01	27	2.536
87	9	12.00	26	1.863	-9.39	30	2.686
88	9	12.54	29	2.602	-6.81	28	4.007
89	9	10.60	26	1.256	-9.66	26	2.865
82	10	13.84	28	1.744	-7.43	21	3.380
83	10	14.04	30	2.019	-7.43	30	2.305
84	10	14.48	26	1.955	-4.52	27	2.795
85	10	14.15	30	1.625	-8.33	30	1.833
86	10	12.41	31	2.617	-8.43	29	2.634
87	10	13.22	29	2.868	-7.72	28	2.580
88	10	13.43	31	1.646	-8.30	28	3.271
89	10	13.17	30	2.016	-7.07	30	3.295
82	11	15.30	21	2.207	-4.06	25	2.659
83	11	13.83	30	1.921	-8.55	29	1.802
84	11	14.17	28	2.392	-4.17	29	3.588
85	11	13.25	30	2.036	-3.99	30	3.393

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : FUEBLD NUEVO (P.LIRIMA) CODIGO: 01730053 9

año	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
86	11	14.52	30	2.023	-4.70	30	3.624
87	11	16.14	28	1.173	-5.92	27	2.740
88	11	15.21	28	1.715	-7.82	26	3.018
89	11	13.44	30	1.494	-6.71	30	2.178
82	12	15.05	25	1.409	-5.62	19	2.816
83	12	15.52	30	1.668	-4.90	30	2.532
84	12	14.34	29	2.358	-4.79	31	2.451
85	12	14.32	29	2.276	-2.15	28	3.196
86	12	14.54	31	1.777	-1.17	30	3.637
87	12	15.67	28	1.971	-6.34	27	2.579
88	12	14.52	30	2.470	-4.70	30	2.588
89	12	13.77	29	1.321	-7.19	29	2.608

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : FUEBLD NUEVO (P.LIRINA) CODIGO: 01730053 9

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
83	1	14.99	30	1.302	-3.53	31	2.794
84	1	11.99	31	4.405	-1.27	31	2.893
85	1	13.29	31	1.762	-3.98	31	4.285
86	1	14.35	31	2.268	-1.80	31	3.033
87	1	13.21	27	2.071	2.05	27	2.441
88	1	16.33	31	2.223	0.30	31	3.092
89	1	15.35	31	1.833	-3.98	31	2.774
83	2	15.12	28	2.703	-2.48	28	2.359
84	2	10.99	28	2.249	1.50	28	2.702
85	2	13.76	28	1.727	0.78	28	3.606
86	2	14.09	28	2.004	-2.49	28	2.696
87	2	15.49	25	2.077	-3.43	26	3.307
88	2	15.70	27	0.729	-4.67	27	3.343
89	2	13.75	28	2.266	-1.25	28	2.542
83	3	15.38	31	2.481	-3.68	31	3.031
84	3	12.82	31	1.378	-0.49	31	2.150
85	3	14.39	31	2.044	-2.05	31	3.352
86	3	14.54	31	1.990	-2.42	31	2.442
87	3	14.55	23	2.089	-3.93	22	2.365
88	3	14.06	31	3.314	-2.11	31	2.799
89	3	13.32	31	1.634	-3.91	31	2.854
83	4	14.03	30	2.062	-5.22	30	2.734
84	4	12.93	30	1.962	-5.31	30	2.589
85	4	14.18	30	2.289	-4.88	30	3.319
86	4	13.56	30	1.886	-7.00	30	2.807
87	4	13.59	28	2.394	-7.18	27	2.496
88	4	14.30	30	2.519	-5.20	30	4.035
89	4	12.92	30	2.530	-4.96	30	3.160
83	5	10.08	31	2.271	-6.56	31	3.126
84	5	11.68	31	2.464	-6.97	31	2.406
85	5	12.77	31	1.702	-7.92	31	2.545
86	5	9.85	31	2.447	-10.81	31	3.242
87	5	10.69	30	2.287	-5.90	30	3.062
88	5	10.95	30	2.460	-7.36	29	2.737
89	5	11.58	31	2.234	-9.66	31	1.993
83	6	6.30	30	2.406	-6.76	30	4.492
84	6	6.38	30	2.647	-7.07	30	3.357
85	6	9.55	30	2.086	-9.57	30	1.828
86	6	10.32	30	2.427	-12.06	30	2.586
87	6	9.62	25	2.275	-8.54	25	3.566
88	6	10.99	29	2.461	-10.32	29	2.701
89	6	10.14	30	1.260	-10.46	30	2.859

PROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : PUEBLO NUEVO (P.LIRINA) CODIGO: 01730053 9

anio	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
83	7	6.65	31	2.462	-7.86	31	3.671
84	7	7.83	31	1.813	-9.39	31	1.840
85	7	8.46	31	3.597	-11.95	31	2.689
86	7	9.67	31	2.332	-12.22	31	3.334
87	7	8.00	31	3.204	-7.36	31	2.374
88	7	11.89	31	2.731	-10.08	31	2.588
89	7	9.18	30	2.042	-10.85	31	3.159
83	8	10.40	29	2.028	-7.52	29	3.440
84	8	6.11	31	2.323	-8.85	31	2.154
85	8	11.51	31	2.485	-9.03	31	2.161
86	8	10.34	30	3.151	-9.22	30	2.815
87	8	11.26	31	2.341	-10.22	31	2.454
88	8	14.46	31	2.522	-9.79	31	2.623
89	8	11.70	28	1.584	-10.84	28	3.031
82	9	10.32	15	2.640	-6.40	14	3.972
83	9	8.44	30	3.034	-3.06	30	2.387
84	9	9.83	30	1.900	-10.13	30	2.781
85	9	11.72	30	1.807	-8.50	30	3.851
86	9	12.09	29	2.120	-8.55	29	2.714
87	9	11.46	29	2.140	-9.54	29	3.087
88	9	12.50	30	2.650	-7.07	30	4.095
89	9	10.71	28	1.718	-10.23	29	3.055
82	10	13.20	28	1.722	-4.60	27	3.370
83	10	12.86	31	2.068	-6.93	31	2.146
84	10	13.17	31	2.565	-3.88	31	3.053
85	10	14.30	31	1.526	-8.84	31	1.838
86	10	12.79	31	2.958	-9.30	31	2.683
87	10	12.59	31	3.357	-8.21	31	2.811
88	10	13.78	30	1.898	-8.67	31	3.017
89	10	15.35	31	2.338	-7.66	30	3.228
82	11	13.82	30	2.053	-4.36	30	2.984
83	11	12.93	30	2.006	-7.93	30	1.727
84	11	13.30	30	2.295	-3.65	30	3.433
85	11	13.40	30	2.286	-4.51	30	3.874
86	11	14.52	30	2.372	-5.06	30	3.846
87	11	16.34	30	1.524	-6.22	30	2.769
88	11	15.19	30	2.242	-8.79	30	3.384
89	11	13.85	30	1.685	-7.23	30	2.312
82	12	14.10	30	1.414	-4.29	29	3.690
83	12	15.15	31	1.636	-3.90	31	2.654
84	12	14.96	31	2.395	-4.47	31	2.738
85	12	14.67	31	2.215	-2.67	31	3.243
86	12	14.85	31	1.914	-1.40	31	3.652

FROMEDIOS MENSUALES DE TERMOGRAMAS

ESTACION : PUERTO NUEVO (P.LIRIMA) CODIGO: 01730053 9

ano	mes	FROM(MAX)	N DIAS	D.ESTANDAR	FROM(MIN)	N DIAS	D.ESTANDAR
87	12	16.32	31	2.157	-6.47	31	3.002
88	12	14.83	31	2.706	-4.73	31	2.725
89	12	14.14	29	1.259	-7.45	29	2.634

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1982)
 ESTACION: PUERTO NUEVO (P.LIRINA) CODIGO : 01730053

9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1983)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	01	01	1	00	01	00	00	00	00	00	00	00	00	00	
2	00	00	00	00	00	00	00	00	00	00	00	01	2	00	01	00	10	00	00	00	10	00	00	00	
3	00	00	00	00	00	00	00	00	00	00	00	01	3	00	00	00	00	00	00	00	00	00	00	00	
4	00	00	00	00	00	00	00	00	00	00	01	00	4	00	00	00	10	10	00	01	00	01	00	00	
5	00	00	00	00	00	00	00	00	00	01	01	00	5	01	10	00	10	10	00	00	00	00	00	00	
6	00	00	00	00	00	00	00	00	00	00	00	00	6	01	00	00	00	01	00	01	00	00	00	00	
7	00	00	00	00	00	00	00	00	00	00	00	00	7	00	00	00	10	00	00	00	00	10	00	00	
8	00	00	00	00	00	00	00	00	00	00	00	00	8	00	00	00	10	10	00	00	00	00	00	00	
9	00	00	00	00	00	00	00	00	00	00	10	00	9	00	00	00	10	00	00	00	00	00	00	00	
10	00	00	00	00	00	00	00	00	00	01	00	00	10	10	00	00	00	00	00	00	00	00	00	10	
11	00	00	00	00	00	00	00	00	00	01	00	00	11	00	00	00	00	00	10	01	00	00	00	00	
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	01	00	00	00	00	00	
13	00	00	00	00	00	00	00	00	00	00	01	11	13	00	00	00	00	00	00	00	00	00	00	00	
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	10	00	00	00	00	00	00	00	
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	01	00	00	00	00	00	00	00	00	
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	01	00	00	00	00	01	00	00	00	
17	00	00	00	00	00	00	00	00	00	01	00	01	17	00	00	11	00	11	00	00	01	00	01	00	
18	00	00	00	00	00	00	00	00	00	00	10	00	18	11	00	10	00	10	00	01	00	00	00	00	
19	00	00	00	00	00	00	00	00	00	10	00	00	19	10	00	00	00	00	00	00	01	00	00	00	
20	00	00	00	00	00	00	00	00	00	10	00	00	20	10	00	01	00	00	00	01	00	00	10	00	
21	00	00	00	00	00	00	00	00	00	00	00	01	21	10	00	01	00	00	00	00	01	00	00	00	
22	00	00	00	00	00	00	00	00	00	10	10	11	22	01	00	01	00	00	01	00	00	00	00	00	
23	00	00	00	00	00	00	00	00	00	00	10	01	23	01	00	10	11	00	00	00	00	00	00	00	
24	00	00	00	00	00	00	00	00	00	00	10	00	24	00	00	10	01	00	01	10	00	00	00	00	
25	00	00	00	00	00	00	00	00	00	01	10	01	25	00	00	00	01	00	00	00	00	00	00	00	
26	00	00	00	00	00	00	00	00	00	00	10	01	26	00	00	01	11	00	00	01	00	00	00	00	
27	00	00	00	00	00	00	00	00	00	01	10	10	27	00	00	00	01	00	00	00	00	00	00	00	
28	00	00	00	00	00	00	00	00	00	01	11	10	28	00	00	11	10	10	00	00	00	00	00	00	
29	00	00	00	00	00	00	00	00	00	01	00	10	29	00	00	01	00	01	01	00	00	00	00	00	
30	00	00	00	00	00	00	00	00	00	01	00	11	30	00	00	00	01	00	00	00	00	00	00	00	
31	00	00	00	00	00	00	00	00	00	01	00	01	31	00	00	11	00	10	00	00	00	00	00	01	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1984)
 ESTACION: PUEBLO NUEVO (P.LIPIANA) CODIGO : 01730053

9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1985)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	10	01	10	00	00	1	00	01	00	00	10	00	10	00	00	00	00	
2	01	11	00	00	00	00	00	00	00	10	00	00	2	01	00	00	00	01	00	00	10	00	00	00	00
3	00	10	00	00	00	00	00	00	01	00	00	00	3	10	01	00	00	00	00	00	10	00	00	00	01
4	00	11	00	00	00	00	00	00	01	10	01	00	4	01	00	00	00	01	01	01	00	00	00	00	00
5	00	11	00	00	00	00	00	00	00	00	00	00	5	00	01	00	00	00	00	01	00	00	00	00	00
6	00	11	00	10	00	00	10	10	00	01	00	00	6	00	00	00	01	00	11	00	00	00	00	00	00
7	00	11	00	00	00	00	00	11	00	00	00	00	7	00	00	00	00	01	00	00	00	00	00	00	00
8	00	11	00	00	00	01	00	00	00	00	00	00	8	00	00	00	00	00	01	11	00	00	00	00	00
9	00	01	00	00	00	00	00	10	00	10	00	00	9	00	00	00	00	01	00	10	00	00	00	00	00
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00	00	00
11	01	01	00	00	00	00	00	00	10	00	00	00	11	00	00	00	00	01	00	01	00	00	00	00	00
12	00	00	00	01	00	00	00	00	10	00	00	00	12	00	00	00	00	00	00	00	00	00	00	00	00
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	10	00	00	00	00	00	00	00
14	01	11	00	00	00	00	01	10	00	00	00	00	14	00	00	00	00	11	00	00	00	00	00	00	01
15	00	11	00	01	00	00	00	00	00	00	00	00	15	00	00	00	00	01	00	00	00	00	00	00	00
16	00	10	00	00	00	00	11	00	00	00	00	00	16	00	00	00	11	00	00	00	00	00	00	00	00
17	10	10	00	00	01	00	11	00	00	00	00	10	17	00	00	00	01	00	00	10	00	00	00	00	01
18	01	01	00	00	00	00	11	00	00	11	00	00	18	00	00	10	00	11	10	01	00	01	00	00	10
19	01	01	00	00	00	00	11	00	10	00	00	00	19	00	00	00	00	00	01	00	00	00	00	00	10
20	11	00	00	01	00	00	11	00	00	00	00	00	20	00	00	10	00	10	10	00	00	00	00	00	00
21	11	00	00	01	00	00	11	01	00	00	00	00	21	00	00	00	10	10	01	00	00	00	00	00	00
22	11	00	00	01	00	00	11	00	00	00	00	00	22	00	01	00	00	00	01	10	00	00	10	00	00
23	10	00	00	00	00	00	01	00	00	00	00	00	23	00	01	00	01	00	11	00	00	00	00	00	00
24	11	00	10	01	00	00	00	00	00	00	10	00	24	01	00	00	00	00	00	00	00	00	00	00	00
25	11	01	00	00	00	01	10	00	01	00	00	00	25	00	00	00	00	00	00	00	00	00	00	00	00
26	10	10	00	11	00	00	00	00	00	01	00	00	26	00	00	00	01	00	01	00	00	00	00	00	00
27	10	10	00	01	00	00	00	00	00	00	00	00	27	00	00	00	00	00	01	00	00	00	00	00	00
28	10	10	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	00	00	10	00	01	00	00	00
29	00	00	00	00	00	00	00	00	10	00	10	00	29	00	00	00	00	00	00	00	00	00	00	00	00
30	10	00	00	00	00	00	00	10	00	00	00	00	30	00	00	10	00	00	00	00	00	00	00	00	00
31	01	00	00	00	00	00	00	00	00	01	00	10	31	00	00	00	00	00	00	11	00	00	01	00	00

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1986)
 ESTACION: PUERTO NUEVO (P.LIRINA) CODIGO : 01730053

9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1987)

DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	00	00	00	00	00	00	00	00	1	00	00	00	00	00	00	00	00	00	00		
2	00	00	00	00	00	00	00	00	00	00	00	00	2	00	00	00	00	00	00	00	00	00	01	00	
3	00	00	00	00	01	00	00	00	00	00	00	00	3	00	00	00	00	00	00	00	00	01	00	00	
4	00	00	00	00	00	00	00	00	00	00	00	00	4	00	00	00	00	00	00	10	00	00	00	00	
5	00	00	00	00	00	00	00	00	00	00	00	00	5	00	00	00	00	00	00	00	10	00	00	00	
6	01	00	00	00	00	00	00	00	00	00	00	00	6	00	00	00	00	00	00	00	00	00	00	00	
7	00	00	00	00	00	00	00	10	00	00	00	00	7	00	00	10	00	01	00	00	00	00	00	00	
8	00	00	00	00	00	00	00	01	00	00	00	00	8	00	00	00	00	00	00	00	00	00	10	00	
9	00	00	00	00	00	00	00	00	00	00	00	00	9	00	00	01	10	00	00	00	00	00	00	00	
10	00	00	01	00	00	00	00	00	00	00	00	00	10	00	00	00	00	01	00	00	00	00	00	00	
11	00	01	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00	00	
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00	00	
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	01	00	00	00	00	10	00	00	
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	00	00	00	00	01	00	00	00	10	
15	00	00	00	00	00	00	00	00	00	00	00	00	15	00	00	00	00	00	00	00	00	10	00	00	
16	00	00	00	00	00	00	00	01	00	00	00	00	16	00	01	00	00	00	00	00	00	00	10	00	
17	00	00	00	01	00	00	00	00	00	00	00	00	17	00	00	00	01	00	00	00	00	00	00	00	
18	00	00	00	00	00	00	00	00	00	01	00	00	18	00	00	00	00	00	00	00	10	00	00	01	
19	00	00	00	00	00	00	00	00	00	00	00	00	19	00	00	00	00	01	00	00	00	00	00	01	
20	00	00	00	00	00	00	00	00	00	01	00	00	20	00	00	00	00	00	01	00	00	00	00	10	
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	01	00	00	00	10	00	00	
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	01	00	00	00	10	00	
23	00	00	00	00	00	00	00	00	00	00	00	00	23	00	00	00	00	00	00	00	00	01	00	10	
24	00	00	00	00	01	00	00	00	00	00	00	00	24	00	00	00	00	01	00	00	00	00	10	00	
25	00	00	00	00	00	00	00	00	00	00	00	00	25	00	00	00	00	00	00	00	00	00	00	00	
26	00	00	00	01	00	00	00	00	01	00	00	00	26	00	00	00	00	01	00	00	00	00	00	01	
27	00	00	00	00	00	00	00	00	01	00	00	00	27	00	00	00	00	00	00	10	00	00	00	01	
28	00	00	00	00	00	00	00	00	00	00	00	00	28	00	00	00	00	01	00	10	00	00	00	00	
29	00	00	00	00	00	01	01	00	00	00	00	00	29	00	00	00	00	00	00	00	00	00	00	00	
30	00	00	00	00	00	00	00	00	01	00	00	01	30	00	00	00	00	00	01	00	00	00	00	00	
31	00	00	00	00	00	00	00	00	00	00	00	00	31	00	00	00	00	00	00	00	00	01	00	01	

(1 1) : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1988)
 ESTACION: PUEBLO NUEVO (P.LIRIMA) CODIGO : 01730053 9

LISTADO DE LECTURAS DIRECTAS ELIMINADAS (AÑO: 1989)

DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	DIA	ENE	FEB	MAR	ARR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	00	00	00	00	10	00	00	00	00	00	00	00	1	00	00	00	10	00	00	00	00	00	00	00	
2	00	00	01	00	00	00	00	00	00	00	11	00	2	00	01	00	00	00	00	00	00	10	00	00	
3	00	00	01	00	00	00	00	00	00	00	00	00	3	00	00	00	00	00	00	01	00	00	00	00	
4	00	00	00	00	01	00	00	01	00	00	00	00	4	00	00	00	01	00	00	00	01	00	00	00	
5	00	00	00	00	00	00	01	00	00	00	00	00	5	00	00	00	00	00	00	00	00	00	00	00	
6	00	00	00	00	00	00	00	00	00	00	01	00	6	00	00	00	01	00	00	00	00	00	00	00	
7	00	00	00	00	00	01	00	00	00	00	00	10	7	00	10	00	00	00	01	00	00	00	00	00	
8	00	00	00	00	01	00	00	00	10	00	00	00	8	00	10	00	00	00	00	00	00	00	00	00	
9	00	00	00	01	00	00	00	00	00	00	00	00	9	00	00	00	00	00	00	00	00	00	00	00	
10	00	00	00	00	00	00	00	00	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00	00	
11	00	00	00	00	00	00	00	00	00	00	00	00	11	00	00	00	00	00	00	00	00	00	00	00	
12	00	00	00	00	00	00	00	00	00	00	00	00	12	00	00	00	00	00	00	00	00	00	00	00	
13	00	00	00	00	00	00	00	00	00	00	00	00	13	00	00	00	00	00	01	00	00	01	00	00	
14	00	00	00	00	00	00	00	00	00	00	00	00	14	00	00	01	00	10	00	00	00	00	00	00	
15	00	00	00	10	00	00	00	00	00	00	01	00	15	00	00	01	00	00	00	00	00	10	01	00	
16	00	00	00	00	00	00	00	00	00	00	00	00	16	00	00	01	00	01	00	00	00	10	00	00	
17	00	00	00	00	00	00	00	00	00	00	00	00	17	00	10	00	00	10	00	00	00	00	00	00	
18	00	00	00	00	01	00	00	00	00	10	00	00	18	10	01	00	00	00	00	00	00	00	00	00	
19	00	00	01	00	00	00	00	00	01	01	10	00	19	00	00	00	00	00	00	00	00	00	00	00	
20	00	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	00	00	01	00	00	00	00	00	
21	00	00	00	00	00	00	00	00	00	00	00	00	21	00	00	00	00	00	00	00	00	00	00	00	
22	00	00	00	00	00	00	00	00	00	00	00	00	22	00	00	00	00	00	00	00	00	00	00	00	
23	00	00	00	00	00	00	00	10	00	01	00	00	23	00	00	00	00	00	00	00	11	00	00	00	
24	00	00	00	00	00	00	00	00	00	00	00	00	24	00	00	00	00	00	00	00	11	00	00	00	
25	00	00	00	00	00	00	01	01	01	00	01	00	25	10	00	00	00	00	00	00	00	00	00	00	
26	00	00	00	00	00	00	00	01	00	00	00	00	26	00	00	10	00	00	00	01	00	00	00	00	
27	00	00	00	00	00	00	01	01	00	00	00	00	27	01	00	10	00	00	00	00	01	00	00	00	
28	00	00	00	00	00	00	00	10	00	00	00	00	28	00	00	00	00	00	10	00	00	00	00	00	
29	00	00	00	00	01	00	00	00	00	01	00	00	29	00	00	00	00	10	00	00	00	00	00	00	
30	00	00	00	00	00	00	00	10	00	00	00	01	30	00	00	01	00	00	10	00	00	00	00	00	
31	00	00	00	00	00	00	00	10	00	00	00	00	31	10	00	00	00	00	00	00	00	00	00	00	

{ 1 } : LECTURA DIRECTA ELIMINADA MAXIMA Y MINIMA

3.13 Estación Guatacondo

3.13.1 Generalidades

La estación, se encuentra ubicada en la Latitud Sur 20° 56' y Longitud Oeste 69°05' a una altura de 2460 msnm.

Posee estadística de lecturas directas a partir de 01/01/78, sin registro termográficos.

3.13.2 Información existente

La tabla 35 muestra la información existente de la estación de lecturas directas, la que totaliza 77 meses.

3.13.3 Información traducida

En esta estación existe un período de lecturas directas previamente incorporada al BNA por la Dirección General de Aguas que va desde Enero de 1986 a Diciembre de 1989, a excepción de los meses Enero a Junio, Agosto de 1986, Diciembre 1987, Mayo a Agosto de 1988 (36 meses). Por lo tanto la traducción por parte del consultor abarca xx meses de lecturas directas.

3.13.4 Validación

Se incluye un listado de los promedios mensuales y desviaciones estándar para las lecturas directas.

ESTACION GUATACOND

TABLA 35

LECTURAS DIRECTAS

MAXIMAS		MINIMAS	
DESDE	HASTA	DESDE	HASTA
1/1/78	31/5/78	1/1/78	31/5/79
1/4/79	30/4/79	1/4/79	30/4/79
1/6/79	31/7/79	1/6/79	31/7/79
1/11/79	31/12/79	1/11/79	31/12/79
1/2/80	31/3/80	1/2/80	31/3/80
1/5/80	30/9/80	1/5/80	30/9/80
1/2/81	31/1/85	1/2/81	31/1/85
1/4/85	31/10/85	1/4/85	31/10/85
1/7/86	31/7/86	1/7/86	31/7/86
1/9/86	1/1/89	1/9/86	1/1/90

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : BUATACONDO EDD160: 02113050 B

ano	mes	PROM(MAX)	N DIAS	D.ESTANDAR	PROM(MIN)	N DIAS	D.ESTANDAR
78	1	24.00	31	1.322	7.68	31	1.528
82	1	24.11	31	0.957	7.44	31	1.105
83	1	24.22	31	1.343	8.35	31	1.273
84	1	19.84	31	3.143	6.43	31	1.311
85	1	23.48	31	1.476	8.36	31	1.358
78	2	24.03	28	0.903	7.98	28	1.277
79	2	0.00	0	0.000	0.00	0	0.000
80	2	23.09	28	2.033	7.78	28	1.089
81	2	20.96	28	1.796	9.53	28	0.628
82	2	23.89	28	1.330	8.07	28	0.961
83	2	24.18	28	1.294	8.56	28	1.259
84	2	20.38	28	2.037	7.40	28	1.142
78	3	22.76	31	1.228	5.63	31	1.649
79	3	0.00	0	0.000	0.00	0	0.000
80	3	23.43	31	1.436	7.78	31	0.963
81	3	21.97	31	1.650	5.52	31	0.786
82	3	22.03	31	1.581	7.95	31	1.109
83	3	23.55	31	1.042	7.79	31	1.228
84	3	22.40	31	1.442	7.61	31	1.195
78	4	22.13	30	1.746	4.63	30	1.071
79	4	21.83	30	2.068	6.89	30	1.482
80	4	0.00	0	0.000	0.00	0	0.000
81	4	21.11	30	1.621	5.06	30	0.736
82	4	21.35	30	1.693	6.64	30	1.311
83	4	22.45	30	1.590	6.66	30	1.261
84	4	21.21	30	1.500	6.59	30	1.343
85	4	20.77	30	1.501	7.01	30	1.415
78	5	21.40	31	2.178	4.54	31	1.413
79	5	0.00	0	0.000	0.00	0	0.000
80	5	20.68	31	2.196	5.19	31	1.040
81	5	19.37	31	1.442	4.07	31	0.681
82	5	18.66	31	1.616	4.18	31	1.853
83	5	20.88	31	2.148	4.99	31	1.340
84	5	20.00	31	1.793	5.12	31	1.069
85	5	20.44	31	2.007	6.07	31	1.289
86	5	0.00	0	0.000	0.00	0	0.000
87	5	0.00	0	0.000	0.00	0	0.000
88	5	22.18	31	1.567	7.99	31	1.225
79	6	20.42	30	2.090	2.66	30	1.306
80	6	20.44	30	1.886	3.23	30	0.977
81	6	18.25	30	1.556	2.84	30	1.298
82	6	17.56	30	1.851	2.86	30	2.219
83	6	18.18	30	2.397	2.44	30	3.079

PROMEDIOS MENSUALES DE LECTURAS DIRECTAS
 ESTACION : GUATACONDO CODIGO: 02113050 8

ano	mes	PROM(MAX)	N DIAS	D. ESTANDAR	PROM(MIN)	N DIAS	D. ESTANDAR
84	6	18.30	30	2.932	2.59	30	2.854
85	6	19.49	30	2.202	4.11	30	2.492
88	6	21.51	30	1.472	7.70	30	1.232
79	7	20.86	31	2.427	2.61	31	1.986
80	7	18.62	31	2.467	2.98	31	1.173
81	7	17.99	31	1.627	1.59	31	2.540
82	7	20.72	31	2.090	4.61	31	1.187
83	7	18.92	31	2.098	3.32	31	2.107
84	7	20.36	31	2.535	3.97	31	1.340
85	7	18.99	31	2.061	2.21	31	3.278
88	7	21.08	31	1.695	7.82	31	1.286
80	8	20.74	31	1.982	3.78	31	1.232
81	8	18.85	31	2.311	3.03	31	2.780
82	8	21.02	31	2.016	4.89	31	0.995
83	8	21.31	31	2.028	5.65	31	1.170
84	8	21.49	31	2.424	5.18	31	1.804
85	8	20.57	31	2.041	5.69	31	1.890
88	8	20.85	31	1.716	7.92	31	1.111
80	9	22.51	30	1.567	4.91	30	0.928
81	9	22.02	30	1.718	6.45	30	1.157
82	9	21.67	30	2.569	4.57	30	2.289
83	9	21.08	30	2.271	5.43	30	2.107
84	9	22.76	30	1.431	5.93	30	1.021
85	9	22.94	30	1.945	7.92	30	1.323
81	10	22.38	31	1.362	6.70	31	0.902
82	10	23.03	31	1.638	6.26	31	1.157
83	10	22.91	31	1.383	7.03	31	1.209
84	10	22.72	31	1.732	6.69	31	1.194
85	10	23.18	31	1.092	8.90	31	0.809
79	11	23.70	30	0.892	6.67	30	1.146
81	11	22.56	30	1.260	6.57	30	0.761
82	11	24.24	30	1.327	7.11	30	1.294
83	11	23.62	30	0.971	7.52	30	1.283
84	11	23.39	30	1.326	7.56	30	1.012
79	12	24.54	31	1.198	6.82	31	1.304
81	12	23.94	31	1.501	7.31	31	0.904
82	12	24.65	31	0.905	7.88	31	1.020
83	12	23.88	31	1.315	8.74	31	1.192
84	12	23.93	31	1.182	8.55	31	0.983
87	12	25.04	31	0.937	10.03	31	0.984