

# **ANEXO.**

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## Anexo 1. Regresión Espacial de Parámetros.

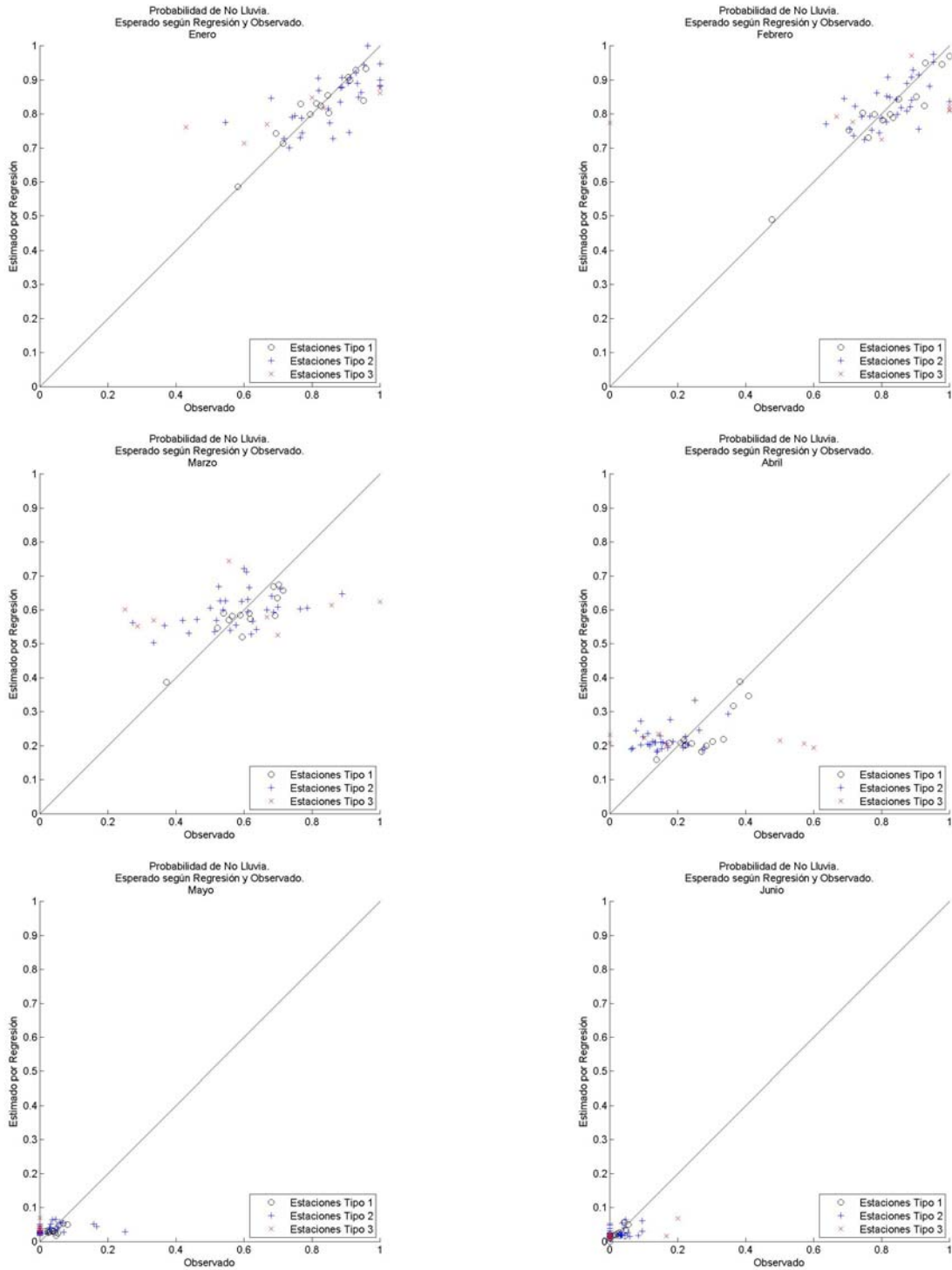
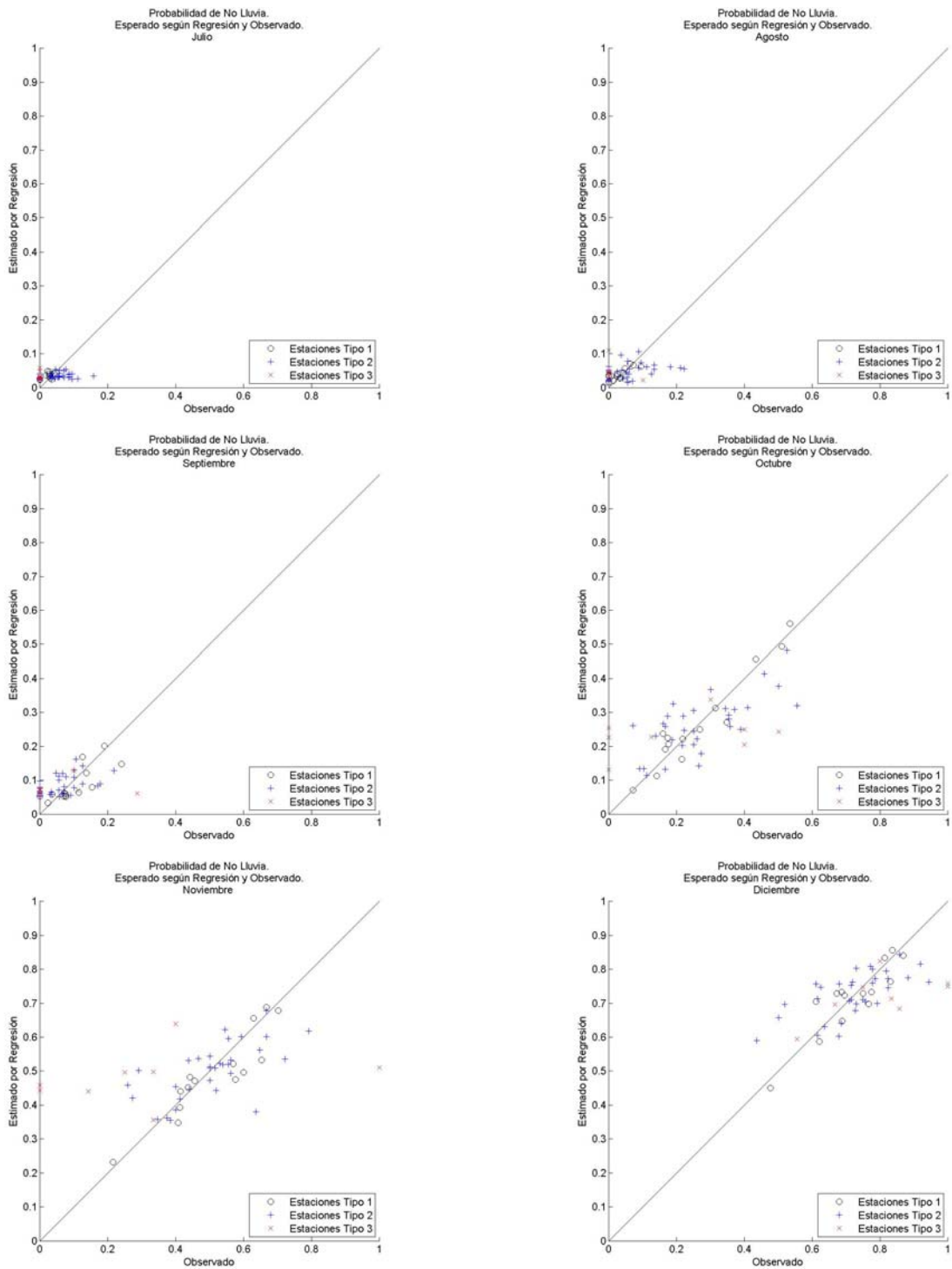
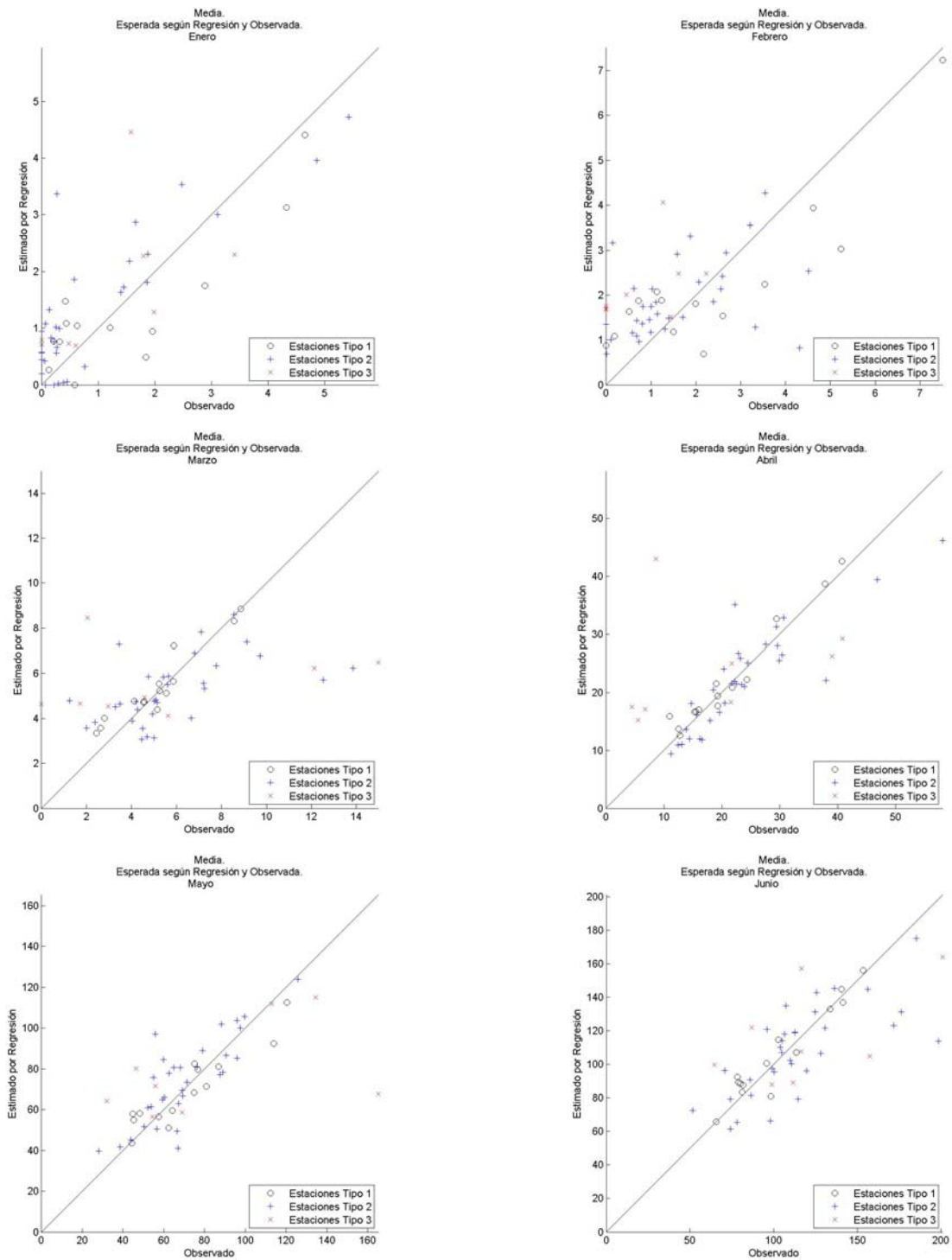


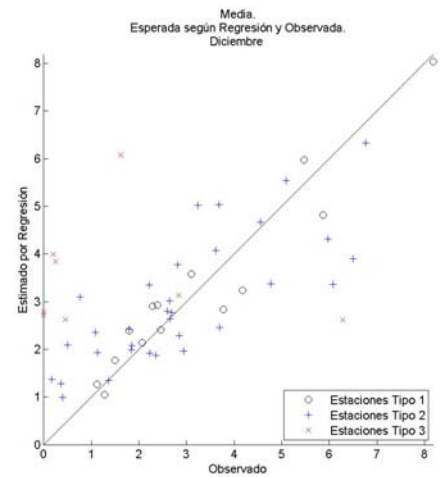
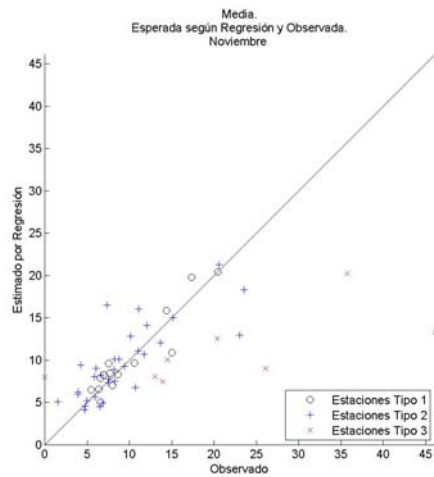
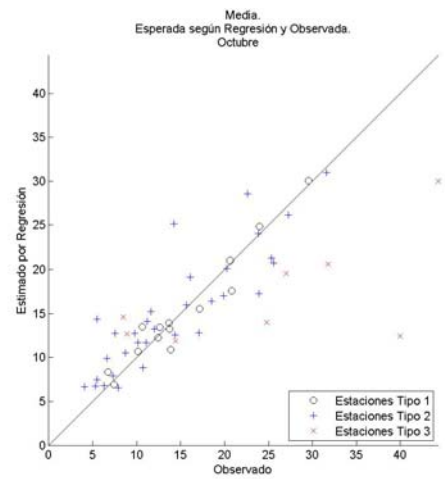
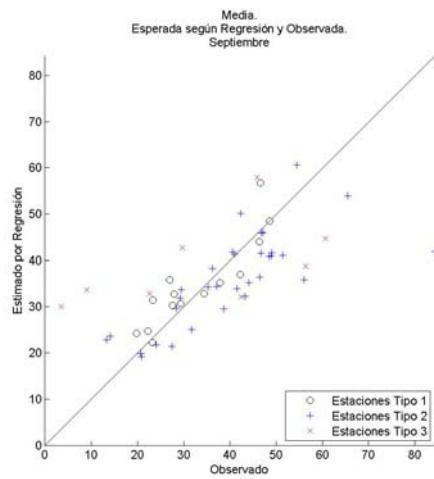
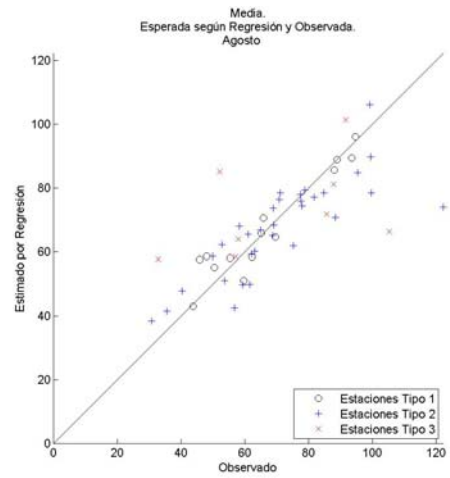
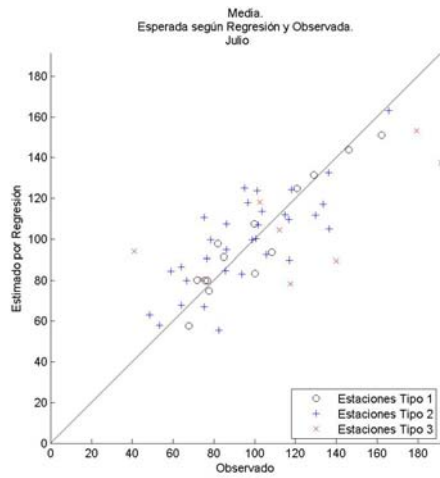
Figura A 1. Probabilidad de No Lluvia, Observada y Estimada por Regresión. Meses de Enero a Junio.



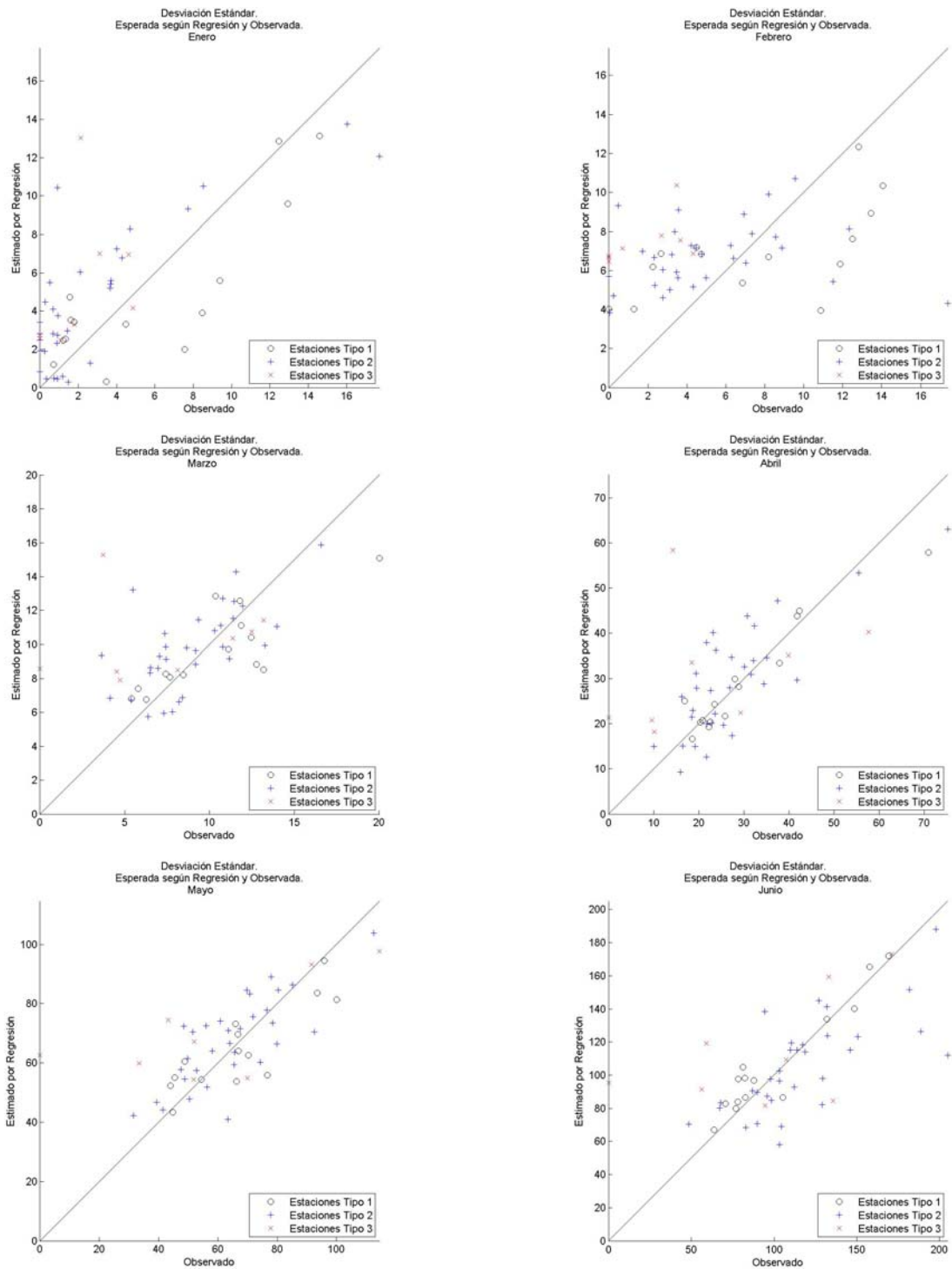
**Figura A 2. Probabilidad de No Lluvia, Observada y Estimada por Regresión. Meses de Julio a Diciembre.**



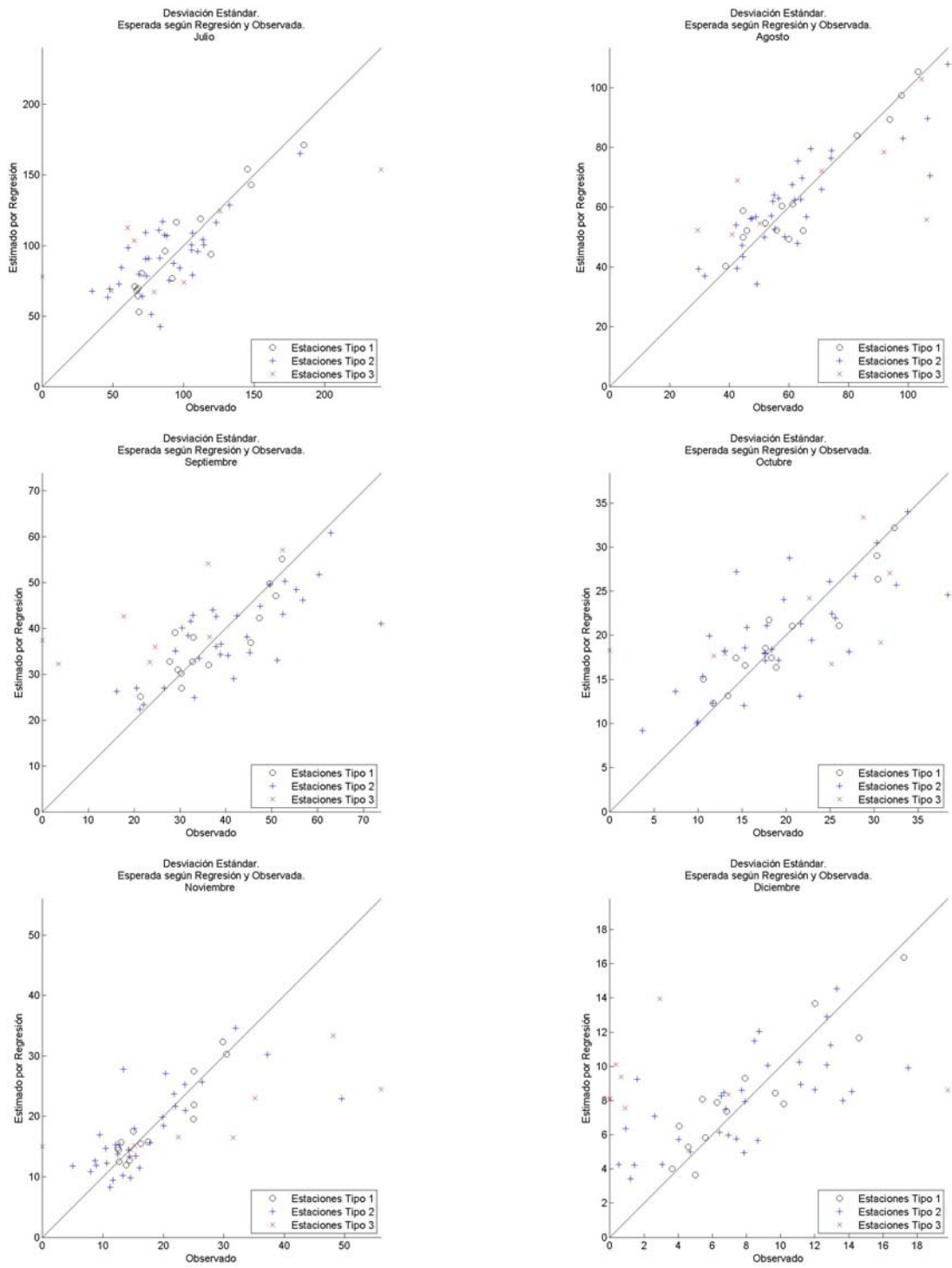
**Figura A 3. Media, Observada y Estimada por Regresión. Meses de Enero a Junio.**



**Figura A 4. Media, Observada y Estimada por Regresión. Meses de Julio a Diciembre.**

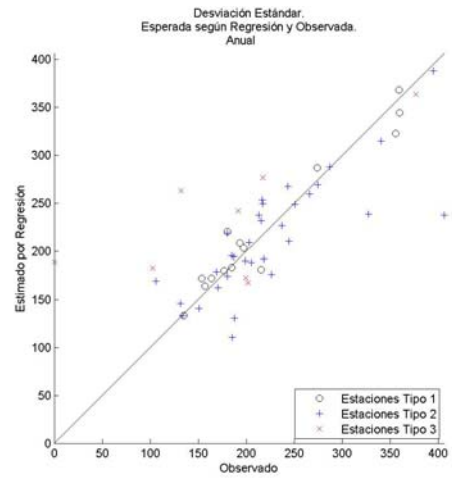
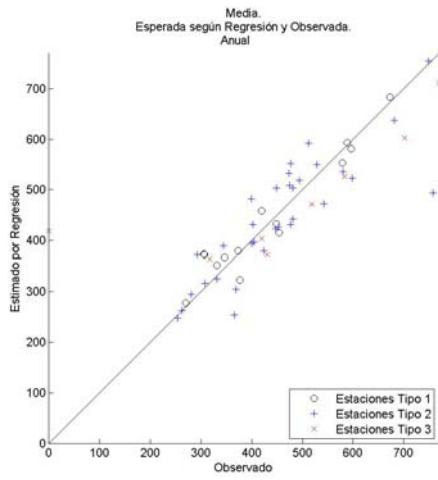


**Figura A 5. Desviación Estándar, Observada y Estimada por Regresión. Meses de Enero a Junio.**



**Figura A 6. Desviación Estándar, Observada y Estimada por Regresión. Meses de Julio a Diciembre.**





**Figura A 7. Parámetros Anuales, Observados y Estimados por Regresión.**

## Anexo 2. Parámetros Finales Utilizados.

Tabla A. 1. Parámetros Finales Utilizados. Probabilidad de No Lluvia.

NE	Nombre Estación	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Anu
P01	Angostura en Valdivia de Paine	1.00	0.88	0.80	0.27	0.10	0.05	0.07	0.12	0.08	0.30	0.53	0.90	0.00
P02	Antupirén	0.84	0.84	0.56	0.19	0.00	0.00	0.03	0.00	0.03	0.29	0.47	0.67	0.00
P03	Barrera Loncha	1.00	0.95	0.71	0.24	0.07	0.05	0.05	0.10	0.10	0.41	0.56	0.82	0.00
P04	Caleu	0.91	0.98	0.70	0.38	0.07	0.02	0.02	0.05	0.19	0.53	0.67	0.84	0.00
P05	Campus San Joaquín U.C.	0.84	0.82	0.60	0.22	0.03	0.02	0.03	0.04	0.06	0.23	0.48	0.73	0.00
P06	Carmen de las Rosas	0.91	0.85	0.70	0.28	0.08	0.03	0.03	0.09	0.15	0.35	0.65	0.83	0.00
P07	Cerrillos de Leyda	0.85	0.90	0.59	0.30	0.06	0.03	0.03	0.04	0.14	0.32	0.57	0.75	0.00
P08	Cerro Calán	0.78	0.80	0.54	0.12	0.02	0.02	0.02	0.00	0.03	0.18	0.28	0.73	0.00
P09	El Vergel	0.93	0.85	0.63	0.24	0.07	0.02	0.02	0.07	0.08	0.38	0.56	0.77	0.00
P10	El Yeso Embalse	0.58	0.48	0.37	0.14	0.02	0.00	0.05	0.02	0.02	0.07	0.21	0.48	0.00
P11	Estero Puangue en Ruta 78	1.00	1.00	0.65	0.28	0.10	0.03	0.03	0.13	0.15	0.41	0.50	0.74	0.00
P12	Fundo Marruecos	0.93	0.88	0.61	0.20	0.02	0.02	0.05	0.05	0.03	0.28	0.48	0.75	0.00
P13	Huechún Andina	0.93	0.95	0.68	0.34	0.03	0.03	0.05	0.08	0.13	0.49	0.66	0.86	0.00
P14	Huenchún Embalse	0.93	0.95	0.71	0.34	0.03	0.03	0.03	0.05	0.13	0.54	0.66	0.87	0.00
P15	Ibacache Alto	0.95	0.93	0.71	0.29	0.07	0.02	0.05	0.10	0.10	0.54	0.67	0.85	0.00
P16	La Dehesa	0.85	0.88	0.61	0.17	0.02	0.00	0.03	0.00	0.00	0.25	0.45	0.75	0.00
P17	La Ermita Bocatoma Central	0.85	0.78	0.59	0.17	0.02	0.00	0.02	0.02	0.00	0.28	0.40	0.70	0.00
P18	La Obra Recinto Emos	0.80	0.80	0.56	0.17	0.02	0.00	0.03	0.00	0.00	0.28	0.40	0.78	0.00
P19	Laguna Aculeo	0.95	0.90	0.70	0.24	0.07	0.02	0.02	0.12	0.11	0.35	0.55	0.87	0.00
P20	Las Bateas Fundo	0.95	0.98	0.65	0.37	0.03	0.08	0.05	0.05	0.15	0.55	0.66	0.89	0.00
P21	Las Dos Puertas Fundo	0.95	0.83	0.68	0.12	0.02	0.00	0.02	0.00	0.13	0.23	0.53	0.78	0.00
P22	Las Melosas	0.74	0.74	0.52	0.17	0.05	0.02	0.07	0.07	0.09	0.09	0.37	0.49	0.00
P23	Loncha	0.85	0.79	0.59	0.14	0.05	0.02	0.04	0.05	0.06	0.16	0.44	0.68	0.00
P24	Los Guindos	1.00	0.95	0.73	0.24	0.07	0.02	0.05	0.10	0.08	0.46	0.62	0.90	0.00
P25	Los Panguiles	0.88	0.88	0.66	0.22	0.02	0.00	0.00	0.02	0.00	0.20	0.43	0.70	0.00
P26	Maitenes Bocatoma	0.85	0.83	0.56	0.15	0.02	0.00	0.03	0.00	0.00	0.25	0.40	0.73	0.00
P27	Mallarauco	1.00	0.85	0.68	0.22	0.02	0.00	0.00	0.05	0.03	0.30	0.48	0.78	0.00
P28	Melipilla	0.90	0.88	0.68	0.20	0.05	0.03	0.03	0.05	0.15	0.31	0.49	0.74	0.00
P29	Peñaflor	0.86	0.83	0.61	0.20	0.04	0.03	0.03	0.04	0.07	0.24	0.50	0.74	0.00
P30	Pirque	0.85	0.77	0.59	0.17	0.00	0.00	0.06	0.03	0.03	0.22	0.40	0.71	0.00
P31	Quebrada de Macul	0.79	0.78	0.57	0.22	0.03	0.02	0.03	0.03	0.07	0.22	0.45	0.69	0.00
P32	Queltehues	0.71	0.68	0.51	0.18	0.03	0.01	0.04	0.02	0.05	0.11	0.34	0.58	0.00
P33	Ramón Quebrada	0.85	0.85	0.68	0.17	0.02	0.02	0.02	0.02	0.00	0.30	0.38	0.78	0.00
P34	Rincón de Los Valles	0.96	1.00	0.69	0.41	0.04	0.04	0.04	0.06	0.13	0.51	0.70	0.87	0.00
P35	Río Mapocho en Los Almendros	0.79	0.79	0.57	0.24	0.03	0.02	0.03	0.03	0.08	0.25	0.47	0.70	0.00
P36	Río Mapocho Rinconada de Maipú	0.86	0.84	0.61	0.22	0.03	0.03	0.03	0.04	0.08	0.27	0.51	0.75	0.00
P37	Rungue Embalse	0.93	0.93	0.71	0.36	0.04	0.05	0.02	0.07	0.24	0.43	0.63	0.81	0.00
P38	San Alfonso	0.81	0.81	0.53	0.21	0.07	0.02	0.02	0.00	0.02	0.23	0.48	0.73	0.00
P39	San Antonio (Pta. Panul)	0.87	0.85	0.63	0.13	0.05	0.03	0.08	0.05	0.13	0.38	0.47	0.71	0.00
P40	San Gabriel	0.78	0.71	0.58	0.15	0.05	0.03	0.05	0.08	0.05	0.08	0.32	0.67	0.00
P41	San José Retén	0.77	0.77	0.54	0.14	0.00	0.00	0.03	0.06	0.06	0.26	0.40	0.69	0.00
P42	Talagante	0.86	0.83	0.61	0.20	0.04	0.03	0.03	0.05	0.07	0.24	0.50	0.74	0.00
P43	Terraza Oficinas Centrales DGA	0.83	0.83	0.57	0.17	0.04	0.00	0.00	0.00	0.00	0.22	0.46	0.70	0.00
P44	Til-Til	0.90	0.92	0.69	0.29	0.03	0.03	0.05	0.08	0.18	0.43	0.65	0.84	0.00
P45	Villa Alhué	0.98	0.93	0.71	0.24	0.07	0.02	0.07	0.07	0.13	0.44	0.56	0.79	0.00
P46	Batuco Retén	0.85	0.79	0.61	0.25	0.02	0.07	0.07	0.02	0.13	0.31	0.46	0.72	0.00
P47	La Florida	0.79	0.80	0.62	0.22	0.03	0.04	0.03	0.03	0.08	0.17	0.41	0.77	0.00
P48	Los Cerrillos	0.81	0.78	0.62	0.21	0.04	0.00	0.00	0.00	0.08	0.17	0.58	0.67	0.00
P49	Queltehues DMC	0.71	0.76	0.59	0.27	0.03	0.01	0.03	0.01	0.11	0.14	0.41	0.62	0.00
P50	San Jose de Maipo DMC	0.69	0.70	0.52	0.22	0.01	0.00	0.03	0.00	0.07	0.22	0.41	0.69	0.00
P51	Santiago Quinta Normal	0.77	0.74	0.54	0.22	0.02	0.01	0.00	0.01	0.04	0.16	0.44	0.69	0.00
P52	Santo Domingo	0.75	0.78	0.45	0.13	0.03	0.03	0.03	0.05	0.10	0.23	0.35	0.63	0.00
P53	Tobalaba	0.85	0.83	0.56	0.24	0.05	0.02	0.03	0.03	0.07	0.18	0.44	0.61	0.00
P54	Valle Hermoso	0.95	0.93	0.69	0.33	0.05	0.05	0.00	0.02	0.07	0.27	0.60	0.78	0.00



**Tabla A. 2. Parámetros Finales Utilizados. Media.**

NE	Nombre Estación	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Anu
P01	Angostura en Valdivia de Paine	0.0	1.2	2.2	12.1	68.6	104.3	128.1	65.2	39.0	6.3	14.9	4.8	461.6
P02	Antupirén	1.7	2.3	6.8	26.3	63.3	102.8	114.0	67.6	45.6	19.5	13.7	6.7	469.5
P03	Barrera Loncha	0.0	1.4	4.5	21.8	92.8	138.4	117.9	67.3	40.6	16.1	8.2	2.9	553.5
P04	Caleu	0.3	0.2	5.3	21.8	86.8	141.4	162.1	93.5	37.8	12.4	10.5	1.5	579.6
P05	Campus San Joaquín U.C.	1.2	1.8	4.9	19.6	64.4	94.7	85.9	61.3	33.9	15.3	9.3	3.0	400.5
P06	Carmen de las Rosas	1.8	2.6	5.2	19.3	80.9	113.5	108.5	69.6	27.9	13.8	8.0	2.5	453.9
P07	Cerrillos de Leyda	2.0	1.5	5.9	19.1	75.2	103.0	99.7	65.9	27.0	13.6	6.5	2.1	419.7
P08	Cerro Calán	1.2	1.9	5.4	20.2	56.1	101.2	99.3	64.1	39.5	19.5	10.2	4.4	420.9
P09	El Vergel	0.1	0.5	2.9	17.9	71.7	120.1	125.9	54.7	33.9	11.2	8.0	6.8	448.0
P10	El Yeso Embalse	5.9	7.5	8.9	37.8	76.6	140.5	129.0	88.9	46.4	20.6	20.4	8.2	588.9
P11	Estero Puangue en Ruta 78	0.0	0.0	4.9	15.6	63.8	66.8	72.4	42.9	26.7	7.6	5.0	2.8	294.6
P12	Fundo Marruecos	0.2	0.8	3.0	13.3	51.6	86.1	72.7	43.4	22.1	12.2	7.8	1.7	304.1
P13	Huechún Andina	0.2	0.0	3.1	10.7	32.2	66.0	60.3	31.6	17.4	7.9	5.0	0.1	230.4
P14	Huenchún Embalse	0.2	0.3	2.9	9.8	37.3	68.0	68.7	34.3	19.2	6.7	7.0	0.8	262.7
P15	Ibacache Alto	0.0	0.4	3.5	15.7	73.8	112.1	110.4	63.4	37.2	12.9	4.7	0.8	447.0
P16	La Dehesa	1.2	0.5	6.8	23.2	60.8	85.8	88.4	58.3	34.7	23.9	11.8	3.9	400.9
P17	La Ermita Bocatoma Central	1.0	1.2	6.1	22.3	67.6	102.7	103.9	58.2	38.1	21.8	15.7	4.0	408.9
P18	La Obra Recinto Emos	0.8	2.4	7.1	25.9	92.3	151.2	150.1	95.8	52.6	25.9	22.6	3.0	632.6
P19	Laguna Aculeo	0.2	1.1	4.0	24.4	99.3	164.4	173.6	82.1	46.6	15.5	9.9	0.5	594.6
P20	Las Bateas Fundo	0.1	0.0	3.5	12.7	44.8	79.5	94.6	50.4	22.7	6.2	6.7	0.3	315.0
P21	Las Dos Puertas Fundo	0.1	1.8	5.7	18.2	82.5	116.8	119.0	77.7	34.9	16.6	8.4	2.6	507.3
P22	Las Melosas	5.0	3.3	10.2	56.8	124.3	183.9	168.0	95.3	58.2	33.1	19.3	6.0	763.9
P23	Loncha	1.9	2.4	6.2	29.4	100.0	137.1	117.0	81.0	46.2	19.3	11.8	3.8	554.0
P24	Los Guindos	0.0	1.4	4.0	19.0	96.9	146.2	142.8	75.8	42.5	13.9	9.9	1.6	571.8
P25	Los Panguiles	0.4	0.8	2.9	9.3	57.2	95.2	80.2	48.8	24.3	7.8	7.4	2.1	331.8
P26	Maitenes Bocatoma	1.4	1.3	5.3	22.8	72.2	105.4	89.0	61.8	31.2	15.6	12.9	2.3	414.4
P27	Mallarauco	0.0	1.0	6.0	10.9	60.3	96.2	89.1	51.4	23.1	8.7	7.9	0.4	329.3
P28	Melipilla	0.3	0.5	3.3	13.8	64.3	103.0	90.5	53.0	26.9	9.8	6.9	1.7	362.7
P29	Peñaflo	1.0	1.7	4.9	20.3	71.2	102.3	91.3	64.0	35.0	14.7	8.8	2.8	420.8
P30	Pirque	0.6	2.0	4.9	24.5	67.1	109.7	113.6	69.4	39.8	16.1	13.6	2.8	473.5
P31	Quebrada de Macul	2.2	2.6	5.9	25.4	74.5	112.1	104.8	71.5	38.6	18.1	12.2	3.9	474.2
P32	Queltehues	4.3	4.4	8.1	39.1	102.2	150.9	138.6	93.6	52.9	26.7	18.9	6.2	645.7
P33	Ramón Quebrada	0.8	0.7	4.7	17.0	53.3	91.4	88.1	53.6	35.7	18.4	12.1	2.4	377.1
P34	Rincón de Los Valles	0.1	0.0	2.6	11.0	44.8	78.4	81.9	45.7	22.2	6.7	5.4	1.1	305.5
P35	Río Mapocho en Los Almendros	2.0	2.5	5.6	23.4	67.8	104.4	99.7	67.8	36.0	17.1	11.6	3.7	445.2
P36	Río Mapocho Rinconada de Maipú	0.8	1.5	4.7	18.2	64.5	94.6	86.1	60.2	32.3	13.5	8.1	2.5	390.5
P37	Rungue Embalse	0.6	2.2	2.4	12.8	62.5	98.3	100.1	59.5	23.3	7.4	6.5	1.3	376.2
P38	San Alfonso	0.6	0.3	4.4	33.6	89.5	117.0	119.6	88.3	47.8	27.8	10.5	2.8	583.4
P39	San Antonio (Pta. Panul)	0.1	0.6	4.5	21.9	68.1	98.9	93.8	55.4	32.5	12.0	8.0	2.1	407.9
P40	San Gabriel	7.7	2.8	5.7	41.5	87.8	135.3	119.4	83.3	53.9	22.0	20.3	4.4	573.4
P41	San José Retén	3.1	2.7	6.9	28.6	89.0	135.9	126.3	77.4	47.1	23.1	15.2	4.6	561.4
P42	Talagante	1.0	1.6	5.0	20.8	74.0	105.7	94.0	65.4	35.7	14.7	8.8	2.8	431.3
P43	Terraza Oficinas Centrales DGA	0.4	1.2	4.5	15.6	45.2	81.1	77.5	50.3	27.6	12.6	8.6	2.3	331.1
P44	Til-Til	0.2	3.9	4.1	27.4	62.4	70.1	102.4	37.0	22.3	6.7	2.6	0.7	333.9
P45	Villa Alhué	0.2	0.8	3.7	21.2	86.4	128.3	121.6	67.3	41.7	16.3	10.5	5.1	508.5
P46	Batuco Retén	0.6	2.8	3.4	13.1	42.8	62.0	66.4	36.0	15.5	10.6	7.2	2.0	272.2
P47	La Florida	2.9	3.5	5.2	24.3	74.8	95.9	84.8	65.1	42.3	20.8	15.0	3.1	448.8
P48	Los Cerrillos	0.6	0.7	4.1	16.1	48.3	78.9	71.8	47.9	23.3	10.6	7.6	2.4	306.1
P49	Queltehues DMC	4.7	4.6	8.6	40.7	120.3	153.6	146.2	94.8	46.6	29.5	17.3	5.5	672.4
P50	San Jose de Maipo DMC	4.3	5.2	5.9	29.5	113.9	133.9	120.7	88.0	48.6	24.0	14.4	5.9	596.9
P51	Santiago Quinta Normal	1.2	2.0	4.6	15.3	57.4	81.8	75.8	55.3	29.3	13.7	6.9	3.8	346.7
P52	Santo Domingo	0.5	0.7	5.2	23.5	85.5	110.4	108.6	62.2	41.5	15.3	9.4	2.5	458.9
P53	Tobalaba	0.4	1.1	5.5	19.3	64.3	80.1	76.9	62.1	34.4	17.2	7.5	4.2	373.3
P54	Valle Hermoso	0.2	0.5	2.8	12.5	44.2	65.7	67.8	43.7	19.8	10.1	6.4	1.8	270.1

**Tabla A. 3. Parámetros Finales Utilizados. Desviación.**

NE	Nombre Estación	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Anu
P01	Angostura en Valdivia de Paine	0.0	4.7	4.6	16.7	75.0	111.4	212.0	63.3	42.8	8.7	27.0	14.7	279.9
P02	Antupirén	4.4	8.0	10.0	31.7	47.9	105.1	99.3	59.0	32.2	24.6	26.3	16.4	204.6
P03	Barrera Loncha	0.0	6.5	8.7	28.3	82.4	124.8	95.3	57.2	43.1	22.2	12.9	12.2	248.1
P04	Caleu	1.2	1.3	12.5	37.9	93.5	148.5	185.5	93.9	47.3	30.4	25.0	4.6	355.9
P05	Campus San Joaquín U.C.	4.2	7.0	8.9	25.3	59.9	92.2	75.9	55.5	34.6	18.9	17.3	8.2	186.8
P06	Carmen de las Rosas	7.5	11.9	13.2	25.7	66.9	87.9	91.9	64.8	33.0	18.9	14.4	6.8	184.5
P07	Cerrillos de Leyda	8.5	6.8	11.9	28.0	66.0	82.5	87.0	57.6	28.9	18.0	12.6	5.6	193.0
P08	Cerro Calán	3.2	7.7	8.4	24.4	48.5	100.1	85.7	57.4	26.9	19.5	17.9	11.1	193.9
P09	El Vergel	0.7	2.4	5.3	27.6	66.6	123.3	120.5	49.3	35.5	14.8	14.4	18.4	223.9
P10	El Yeso Embalse	12.5	12.8	11.8	42.3	66.8	169.2	145.2	103.3	49.6	20.7	30.5	17.2	359.0
P11	Estero Puangue en Ruta 78	0.0	0.0	8.0	28.3	68.9	59.0	61.7	42.5	35.1	12.4	10.2	7.7	172.8
P12	Fundo Marruecos	0.7	2.3	5.6	18.1	46.0	82.2	75.6	39.7	28.6	17.5	11.5	5.6	149.8
P13	Huechún Andina	0.8	0.1	5.7	10.5	29.4	70.2	79.7	32.3	14.7	10.1	13.0	0.4	155.0
P14	Huenchún Embalse	0.7	1.9	5.9	15.3	39.3	70.2	69.1	30.7	20.0	10.5	16.3	2.4	143.3
P15	Ibacache Alto	0.2	1.9	7.1	29.8	75.0	123.0	114.8	57.8	40.8	20.0	9.3	3.4	236.2
P16	La Dehesa	3.1	1.5	11.1	30.8	54.0	86.5	76.7	53.5	26.5	22.3	19.5	11.8	193.7
P17	La Ermita Bocatoma Central	3.8	3.0	10.0	17.4	55.2	94.9	104.4	60.4	23.1	25.6	22.8	9.5	201.0
P18	La Obra Recinto Emos	2.8	9.3	11.2	30.4	83.2	156.9	133.5	94.7	49.3	32.3	39.2	10.2	332.5
P19	Laguna Aculeo	0.8	4.4	6.9	30.4	90.3	174.2	171.6	71.1	42.7	16.4	16.0	1.3	306.3
P20	Las Bateas Fundo	0.3	0.0	6.8	18.4	42.9	94.0	109.5	49.8	24.7	10.3	13.2	1.0	187.5
P21	Las Dos Puertas Fundo	0.4	5.8	11.5	18.6	72.5	101.4	138.5	72.2	36.6	24.8	12.4	6.7	165.6
P22	Las Melosas	15.4	9.2	22.4	74.7	109.1	192.4	179.0	110.3	64.3	37.5	30.8	12.7	460.4
P23	Loncha	6.6	8.2	12.1	37.7	82.4	125.0	93.5	67.4	49.1	23.5	18.9	10.2	237.6
P24	Los Guindos	0.0	6.4	6.9	22.4	77.9	138.3	123.4	67.3	41.0	19.4	15.8	6.4	255.6
P25	Los Panguiles	1.5	3.6	6.7	14.0	58.5	93.0	75.9	46.8	29.2	9.3	14.9	6.4	165.2
P26	Maitenes Bocatoma	6.4	3.1	9.3	23.3	59.2	111.7	95.1	62.6	22.3	12.5	17.4	7.3	224.5
P27	Mallarauco	0.0	3.5	9.6	16.6	49.8	84.1	98.0	40.0	29.9	14.2	10.3	0.8	159.7
P28	Melipilla	0.9	2.5	6.8	17.0	61.5	93.7	90.1	44.6	29.8	14.3	11.5	3.8	175.4
P29	Peñaflo	3.9	6.7	9.3	26.3	64.1	95.7	77.9	55.4	36.9	19.1	16.1	7.9	189.6
P30	Pirque	2.1	7.2	7.2	30.1	55.3	113.0	105.0	63.9	37.7	19.7	22.0	9.2	209.0
P31	Quebrada de Macul	6.5	7.8	10.4	33.4	68.0	115.3	102.7	70.1	39.7	21.9	21.5	9.6	240.7
P32	Queltehues	11.9	10.6	13.9	51.0	87.1	160.5	138.0	95.8	53.3	29.1	30.6	14.1	333.4
P33	Ramón Quebrada	2.8	3.6	9.5	18.9	48.6	84.1	77.6	48.7	29.2	21.1	22.4	8.0	183.7
P34	Rincón de Los Valles	0.7	0.0	5.8	16.8	48.7	81.1	94.9	44.7	30.2	10.6	12.4	3.6	180.4
P35	Río Mapocho en Los Almendros	5.9	7.4	9.8	31.0	63.9	109.5	101.0	68.1	36.9	21.0	21.1	9.1	232.6
P36	Río Mapocho Rinconada de Maipú	3.3	6.3	8.7	23.7	60.0	89.4	75.8	53.0	34.1	18.0	15.4	7.2	180.1
P37	Rungue Embalse	3.5	10.9	6.3	22.2	66.2	105.4	119.4	60.0	30.4	13.4	13.8	5.0	215.5
P38	San Alfonso	1.2	0.7	5.8	56.1	90.5	128.8	123.7	86.4	48.0	31.0	15.0	7.7	297.4
P39	San Antonio (Pta. Panul)	0.3	2.9	8.8	29.9	61.8	83.7	80.2	48.0	36.7	19.4	14.4	4.8	190.5
P40	San Gabriel	21.8	7.9	10.5	50.1	71.0	160.6	120.6	96.3	55.9	26.8	33.5	11.0	325.4
P41	San José Retén	7.7	6.9	11.8	31.6	71.2	149.8	113.4	74.2	37.1	27.6	26.4	12.9	249.2
P42	Talagante	3.9	6.7	9.5	27.0	65.9	98.0	79.7	56.0	37.9	19.3	15.9	7.8	192.9
P43	Terraza Oficinas Centrales DGA	1.6	4.7	7.7	20.3	44.1	76.9	67.6	44.6	29.5	15.3	16.3	6.3	156.7
P44	Til-Til	0.8	16.6	10.5	44.6	50.6	82.2	103.5	47.6	20.2	10.8	6.2	2.0	179.1
P45	Villa Alhué	1.2	4.0	7.6	33.2	74.3	120.6	105.8	53.3	44.3	23.6	17.3	16.2	228.9
P46	Batuco Retén	2.3	10.0	6.4	17.9	39.3	65.4	69.2	41.5	17.8	21.9	15.1	7.8	141.2
P47	La Florida	9.4	12.5	11.1	28.8	70.3	78.2	70.3	61.3	45.5	26.0	25.0	7.9	197.2
P48	Los Cerrillos	1.8	2.7	7.4	20.9	45.4	78.1	66.8	45.9	27.8	14.3	17.5	5.4	153.6
P49	Queltehues DMC	14.6	14.1	20.0	70.9	96.0	157.9	148.1	97.8	52.2	32.3	29.8	12.0	359.7
P50	San Jose de Maipo DMC	12.9	13.5	10.3	41.8	100.0	132.0	112.1	82.9	51.0	30.3	25.1	14.6	274.0
P51	Santiago Quinta Normal	4.5	8.2	8.4	22.5	54.4	70.4	67.7	55.9	36.2	18.3	13.0	10.2	163.5
P52	Santo Domingo	1.0	3.7	9.9	33.4	77.2	93.0	98.9	55.1	44.9	25.2	14.4	7.1	204.5
P53	Tobalaba	1.5	4.5	12.8	23.5	76.6	82.7	65.2	52.1	32.7	17.6	15.0	9.7	176.6
P54	Valle Hermoso	1.3	2.3	5.4	18.5	44.9	63.8	68.2	38.8	21.4	11.8	12.7	4.1	134.6

**Tabla A. 4. Parámetros Finales Utilizados. Alfa de la Distribución Gamma,  $\alpha$ .**

NE	Nombre Estación	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Anu
P01	Angostura en Valdivia de Paine	-	1.10	18.9	0.88	1.02	0.97	0.41	1.41	0.96	0.98	0.97	18.0	2.72
P02	Antupirén	3.65	0.83	2.70	1.02	1.75	0.96	1.42	1.32	2.21	1.19	0.67	0.76	5.26
P03	Barrera Loncha	-	21.0	2.52	0.98	1.52	1.38	1.75	1.80	1.10	1.43	1.97	0.43	4.98
P04	Caleu	2.90	45.0	1.03	0.68	0.99	0.95	0.79	1.09	0.93	0.44	0.82	1.47	2.65
P05	Campus San Joaquín U.C.	0.88	0.55	1.40	0.92	1.24	1.11	1.37	1.32	1.09	1.05	0.77	0.78	4.62
P06	Carmen de las Rosas	1.55	0.45	0.79	1.01	1.83	1.80	1.49	1.45	0.97	1.16	2.06	2.05	6.05
P07	Cerrillos de Leyda	0.50	0.89	0.91	0.83	1.49	1.68	1.40	1.45	1.17	1.13	0.97	0.93	4.73
P08	Cerro Calán	1.15	0.40	1.76	0.86	1.42	1.08	1.42	1.25	2.34	1.53	0.51	0.95	4.71
P09	El Vergel	0.99	0.47	1.71	0.65	1.38	1.00	1.15	1.47	1.07	1.43	1.17	1.07	4.00
P10	El Yeso Embalse	0.80	0.95	1.35	1.06	1.39	0.69	0.86	0.77	0.91	1.16	0.65	0.54	2.69
P11	Estero Puangue en Ruta 78	-	-	3.36	0.47	1.06	1.36	1.46	1.38	0.77	0.87	0.64	0.78	2.91
P12	Fundo Marruecos	16.0	6.28	1.36	0.76	1.33	1.16	1.02	1.34	0.63	0.82	1.53	0.53	4.12
P13	Huechún Andina	2.64	11.0	2.56	3.41	1.27	0.93	0.62	1.13	2.04	2.77	0.60	1.05	2.21
P14	Huenchún Embalse	7.29	1.46	2.16	0.80	0.94	0.99	1.04	1.42	1.23	1.71	0.82	2.91	3.36
P15	Ibacache Alto	18.0	1.09	1.93	0.44	1.13	0.87	1.02	1.53	1.02	1.74	1.58	0.48	3.58
P16	La Dehesa	7.02	2.93	2.26	0.78	1.35	0.99	1.41	1.19	1.71	2.49	0.95	0.67	4.28
P17	La Ermita Bocatoma Central	0.90	1.59	1.86	2.98	1.60	1.17	1.04	0.97	2.72	1.37	1.17	1.05	4.14
P18	La Obra Recinto Emos	0.66	0.48	1.90	1.03	1.30	0.93	1.34	1.02	1.14	1.17	0.71	0.54	3.62
P19	Laguna Aculeo	14.0	1.49	4.96	1.08	1.44	0.93	1.08	1.87	1.55	2.65	1.61	6.48	3.77
P20	Las Bateas Fundo	21.0	21.0	1.45	1.02	1.15	0.82	0.82	1.14	1.18	1.45	1.50	2.02	2.82
P21	Las Dos Puertas Fundo	15.0	1.07	1.70	1.27	1.37	1.33	0.77	1.16	1.20	0.66	1.98	1.34	9.38
P22	Las Melosas	0.57	0.73	0.57	0.78	1.46	0.96	1.01	0.85	0.99	0.93	0.81	0.56	2.75
P23	Loncha	1.13	0.57	1.03	0.79	1.69	1.26	1.75	1.65	1.00	0.92	1.00	0.63	5.51
P24	Los Guindos	-	17.0	10.5	1.24	1.90	1.18	1.51	1.63	1.27	1.68	2.75	1.25	5.00
P25	Los Pangüiles	1.30	0.74	0.84	0.64	1.00	1.05	1.12	1.15	0.69	1.07	0.54	0.49	4.03
P26	Maitenes Bocatoma	0.41	6.58	1.27	1.35	1.59	0.89	0.92	0.97	1.95	4.36	1.45	0.49	3.41
P27	Mallarauco	-	1.01	7.01	0.63	1.56	1.31	0.83	1.89	0.62	0.64	2.41	3.96	4.25
P28	Melipilla	6.61	0.56	1.48	0.98	1.22	1.28	1.06	1.61	1.13	0.85	1.07	1.78	4.27
P29	Peñaflor	0.90	0.52	1.26	0.89	1.34	1.21	1.48	1.49	1.04	0.96	0.85	0.74	4.96
P30	Pirque	0.88	0.44	3.33	0.92	1.47	0.94	1.33	1.26	1.19	1.04	0.86	0.42	5.13
P31	Quebrada de Macul	1.01	0.91	1.30	0.89	1.28	0.98	1.12	1.12	1.10	1.09	0.79	0.82	3.89
P32	Queltehues	0.65	0.88	1.05	0.82	1.49	0.90	1.10	1.00	1.09	1.05	0.71	0.62	3.76
P33	Ramón Quebrada	1.12	0.39	1.70	1.17	1.27	1.25	1.36	1.28	1.49	1.61	0.56	0.57	4.21
P34	Rincón de Los Valles	5.85	-	1.22	1.03	0.92	1.01	0.80	1.20	0.67	1.41	1.19	1.96	2.87
P35	Río Mapocho en Los Almendros	1.05	0.98	1.39	0.91	1.19	0.95	1.04	1.06	1.11	1.12	0.77	0.88	3.67
P36	Río Mapocho Rinconada de Maipú	0.82	0.51	1.34	0.91	1.25	1.18	1.38	1.44	1.05	0.96	0.80	0.77	4.73
P37	Rungue Embalse	0.65	1.15	0.84	0.64	0.95	0.97	0.72	1.15	0.95	0.70	0.97	0.49	3.05
P38	San Alfonso	11.0	11.0	3.65	0.50	1.13	0.86	0.98	1.04	1.04	1.36	1.72	0.71	3.85
P39	San Antonio (Pta. Panul)	1.33	0.34	1.25	0.66	1.37	1.49	1.66	1.51	1.02	0.81	0.80	1.30	4.58
P40	San Gabriel	1.03	0.63	1.15	0.92	1.75	0.74	1.09	0.86	1.04	0.77	0.65	0.71	3.10
P41	San José Retén	1.58	1.32	1.29	1.10	1.56	0.82	1.33	1.23	1.90	1.25	0.71	0.54	5.07
P42	Talagante	0.94	0.52	1.22	0.87	1.38	1.23	1.51	1.53	1.03	0.94	0.88	0.73	5.04
P43	Terraza Oficinas Centrales DGA	0.66	0.57	1.47	0.81	1.15	1.11	1.32	1.27	0.88	1.07	0.67	0.63	4.46
P44	Til-Til	12.0	1.77	0.77	0.63	1.65	0.77	1.08	0.70	2.00	0.94	0.72	2.78	3.48
P45	Villa Alhué	28.0	1.03	1.74	0.62	1.63	1.19	1.59	1.97	1.16	1.35	1.62	0.78	4.94
P46	Batuco Retén	0.88	0.51	1.24	0.85	1.24	1.04	1.07	0.78	0.97	0.38	0.53	0.29	3.72
P47	La Florida	0.73	0.60	0.90	1.14	1.21	1.69	1.57	1.21	1.01	0.88	0.83	1.31	5.18
P48	Los Cerrillos	1.46	0.44	1.58	0.88	1.23	1.02	1.16	1.09	0.81	0.76	0.61	1.00	3.97
P49	Queltehues DMC	0.48	0.69	0.62	0.52	1.69	0.97	1.03	0.96	1.00	1.13	0.74	0.83	3.49
P50	San Jose de Maipo DMC	0.49	0.80	1.05	0.75	1.34	1.03	1.24	1.13	1.06	0.96	0.73	0.81	4.75
P51	Santiago Quinta Normal	0.42	0.28	0.96	0.67	1.17	1.37	1.25	0.99	0.70	0.75	0.66	0.63	4.50
P52	Santo Domingo	4.96	0.19	0.65	0.61	1.30	1.50	1.28	1.44	1.05	0.54	0.84	0.43	5.04
P53	Tobalaba	0.85	0.55	0.56	1.13	0.77	0.97	1.51	1.55	1.30	1.43	0.55	0.68	4.47
P54	Valle Hermoso	1.00	2.05	2.16	0.89	1.07	1.17	0.99	1.34	0.99	1.39	1.01	2.59	4.03

**Tabla A. 5. Parámetros Finales Utilizados. Tetha de la Distribución Gamma,  $\theta$ .**

NE	Nombre Estación	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Anu
P01	Angostura en Valdivia de Paine	-	9.1	0.6	18.8	74.5	113.6	341.0	52.5	43.8	9.2	32.5	2.6	169.7
P02	Antupirén	2.9	16.9	5.8	32.0	36.2	107.5	82.8	51.4	21.3	23.1	38.4	26.6	89.2
P03	Barrera Loncha	-	1.4	6.1	29.5	65.9	105.3	70.9	41.4	41.1	19.2	9.6	37.8	111.2
P04	Caleu	1.3	0.2	17.1	52.2	94.5	152.9	208.6	89.6	50.3	60.2	38.4	6.3	218.5
P05	Campus San Joaquín U.C.	8.5	18.4	8.7	27.2	53.7	87.3	64.6	48.0	33.1	18.9	23.5	14.4	86.7
P06	Carmen de las Rosas	12.8	39.1	21.8	26.7	48.2	64.9	74.9	53.1	33.8	18.4	11.1	7.1	75.0
P07	Cerrillos de Leyda	25.8	17.4	15.7	32.9	53.5	63.1	73.2	47.5	26.8	17.6	15.7	8.9	88.7
P08	Cerro Calán	4.6	23.8	6.7	26.7	40.5	96.4	71.4	51.4	17.4	15.4	27.7	16.7	89.3
P09	El Vergel	2.0	7.7	4.7	36.7	56.3	123.5	112.3	40.1	34.3	12.7	15.6	27.5	111.9
P10	El Yeso Embalse	17.9	15.1	10.4	41.3	56.4	203.7	157.1	117.9	51.9	19.2	39.9	28.8	218.8
P11	Estero Puangue en Ruta 78	-	-	4.1	45.7	67.1	50.3	50.7	35.7	41.2	14.9	15.7	13.5	101.4
P12	Fundo Marruecos	0.2	1.0	5.7	21.6	39.8	76.3	74.8	34.1	36.3	20.5	9.7	12.9	73.8
P13	Huechún Andina	0.9	0.1	3.8	4.8	26.0	73.0	102.1	30.3	9.8	5.5	24.5	0.9	104.3
P14	Huenchún Embalse	0.4	4.5	4.6	18.7	40.5	70.8	67.8	25.5	18.0	8.5	24.7	2.1	78.2
P15	Ibacache Alto	0.1	4.8	6.1	50.2	70.4	132.3	113.7	45.8	40.5	16.1	8.9	10.6	124.9
P16	La Dehesa	1.1	1.4	7.7	36.0	46.4	87.1	64.2	49.2	20.3	12.8	22.5	23.4	93.6
P17	La Ermita Bocatoma Central	7.9	3.4	7.9	9.0	43.3	87.6	102.2	61.2	14.0	21.9	22.4	12.9	98.7
P18	La Obra Recinto Emos	6.3	25.9	8.5	30.4	72.7	162.7	114.9	93.5	46.3	30.6	53.1	24.4	174.8
P19	Laguna Aculeo	0.3	7.5	2.7	29.8	74.2	180.5	165.2	50.1	33.7	9.0	13.7	0.6	157.7
P20	Las Bateas Fundo	0.1	0.0	6.9	19.5	40.0	104.7	121.6	46.5	22.7	9.5	13.1	1.3	111.6
P21	Las Dos Puertas Fundo	0.1	9.8	10.7	16.4	61.6	88.1	158.1	67.1	33.4	32.3	9.0	8.5	54.1
P22	Las Melosas	33.5	17.0	37.5	86.9	89.5	196.8	178.1	120.4	65.1	39.1	37.8	21.1	277.5
P23	Loncha	11.4	19.7	14.7	43.4	62.3	111.2	69.8	51.7	49.1	25.0	21.0	19.0	100.8
P24	Los Guindos	-	1.7	1.4	20.3	54.9	127.1	99.3	51.5	36.1	15.3	9.4	12.2	114.3
P25	Los Pangüiles	2.6	9.4	10.1	18.5	58.5	90.9	71.9	43.7	35.2	9.2	24.2	14.5	82.3
P26	Maitenes Bocatoma	22.4	1.1	9.6	19.8	46.6	118.3	99.4	63.4	16.0	4.8	14.8	17.0	121.6
P27	Mallarauco	-	6.7	2.7	22.2	39.6	73.6	107.9	28.6	38.0	19.5	6.3	0.4	77.5
P28	Melipilla	0.4	7.7	6.9	17.6	55.3	82.6	87.4	34.7	28.1	16.5	12.6	3.7	84.9
P29	Peñaflor	8.3	19.1	9.9	28.8	55.0	86.9	63.6	45.0	36.2	20.1	20.7	14.3	84.9
P30	Pirque	4.3	19.5	3.6	32.1	45.6	116.4	90.4	56.8	34.4	19.7	26.4	23.4	92.3
P31	Quebrada de Macul	10.6	13.4	10.5	36.7	59.8	116.3	97.0	66.2	37.9	21.3	28.0	15.3	122.0
P32	Queltehues	22.5	15.9	15.6	58.1	70.7	169.0	131.1	95.6	50.9	28.5	40.0	23.7	171.9
P33	Ramón Quebrada	5.0	13.3	8.8	17.6	43.0	75.1	66.2	43.0	24.0	16.3	34.6	18.5	89.5
P34	Rincón de Los Valles	0.6	-	6.9	18.1	51.1	80.5	106.4	40.7	38.0	9.7	15.4	4.4	106.5
P35	Río Mapocho en Los Almendros	9.4	12.4	9.4	33.8	58.5	112.6	99.0	66.1	35.0	20.2	28.2	14.0	121.5
P36	Río Mapocho Rinconada de Maipú	7.5	18.8	8.9	25.8	53.6	82.0	64.1	43.9	33.3	19.2	20.8	13.1	82.7
P37	Rungue Embalse	12.6	26.4	10.1	31.3	67.9	107.2	140.6	55.8	32.3	18.6	18.1	14.0	123.4
P38	San Alfonso	0.3	0.1	2.6	84.7	85.0	139.1	125.1	84.7	47.1	26.5	11.7	14.3	151.6
P39	San Antonio (Pta. Panul)	0.4	11.2	9.6	37.7	52.4	68.3	60.9	38.7	36.7	24.1	19.0	5.7	89.0
P40	San Gabriel	34.1	15.2	11.6	53.1	52.7	187.1	115.2	104.5	54.9	30.9	45.7	18.5	184.7
P41	San José Retén	8.6	8.9	11.7	30.2	56.9	165.0	98.0	66.6	26.4	24.9	35.7	26.7	110.6
P42	Talagante	8.2	19.1	10.4	29.8	55.7	88.1	64.4	44.7	37.4	20.6	19.9	14.4	85.7
P43	Terraza Oficinas Centrales DGA	3.8	12.4	7.1	23.1	40.9	73.0	58.9	39.6	31.4	15.1	23.7	12.0	74.2
P44	Til-Til	0.2	26.8	17.4	61.3	39.0	94.1	99.5	58.0	13.5	12.4	10.3	1.6	96.1
P45	Villa Alhué	0.3	10.4	7.2	45.2	57.2	110.2	82.5	36.9	41.1	21.4	14.9	31.8	103.0
P46	Batuco Retén	4.8	25.7	6.9	20.3	35.2	64.1	66.9	47.2	18.3	40.4	25.3	25.1	73.3
P47	La Florida	19.3	29.8	15.2	27.2	63.7	59.4	55.7	55.7	45.5	28.3	31.0	10.1	86.6
P48	Los Cerrillos	2.3	7.4	6.8	22.9	40.8	77.4	62.2	43.9	31.2	17.0	29.5	7.3	77.1
P49	Queltehues DMC	34.2	28.1	34.3	108.3	73.3	160.3	145.9	99.7	52.6	30.5	39.5	17.4	192.4
P50	San Jose de Maipo DMC	28.8	22.1	11.8	50.8	86.1	130.2	100.2	78.1	49.5	31.7	33.7	23.3	125.7
P51	Santiago Quinta Normal	12.5	28.1	10.3	29.0	50.3	60.1	60.5	56.1	43.7	21.9	18.9	19.2	77.1
P52	Santo Domingo	0.4	16.5	14.6	44.0	67.4	75.5	87.3	45.6	43.9	36.8	17.2	15.8	91.1
P53	Tobalaba	3.3	12.3	22.4	22.5	87.8	83.9	52.6	41.5	28.5	14.5	24.1	15.9	83.6
P54	Valle Hermoso	4.3	3.4	4.2	21.1	43.3	58.7	68.7	33.3	21.5	9.9	15.7	3.1	67.0

### Anexo 3. Distribuciones de Probabilidades Multivariadas Final para las Precipitaciones Mensuales.

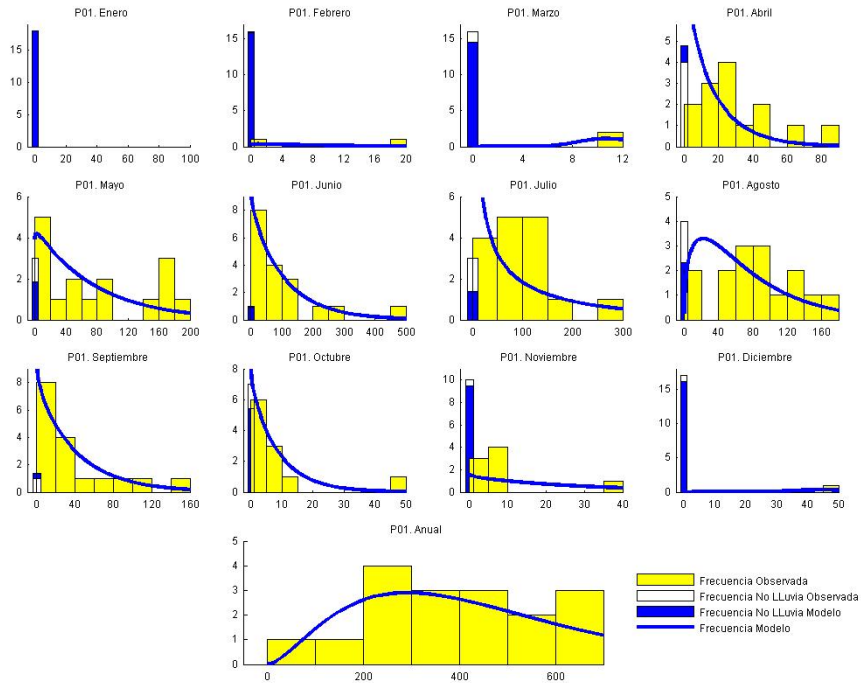
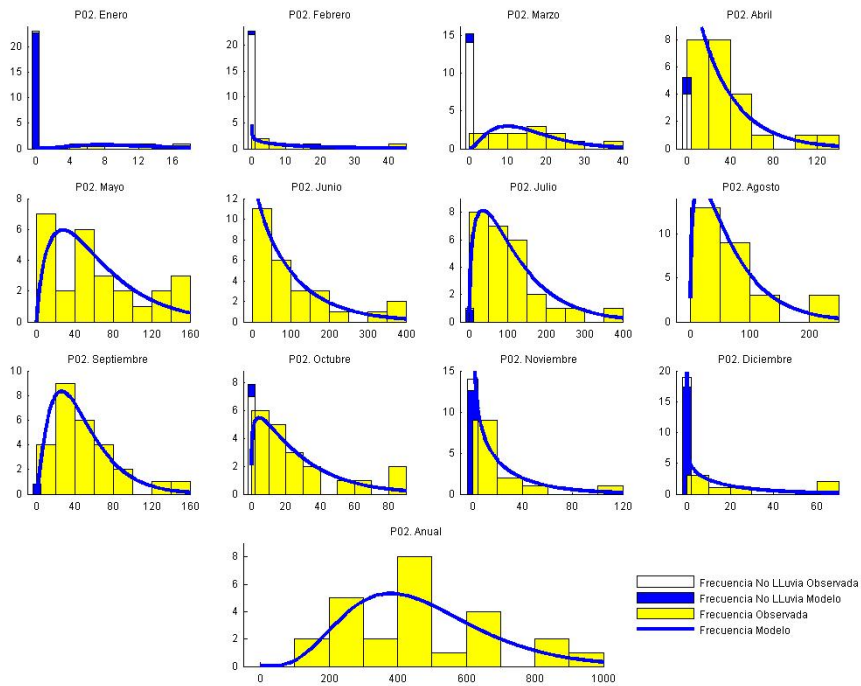
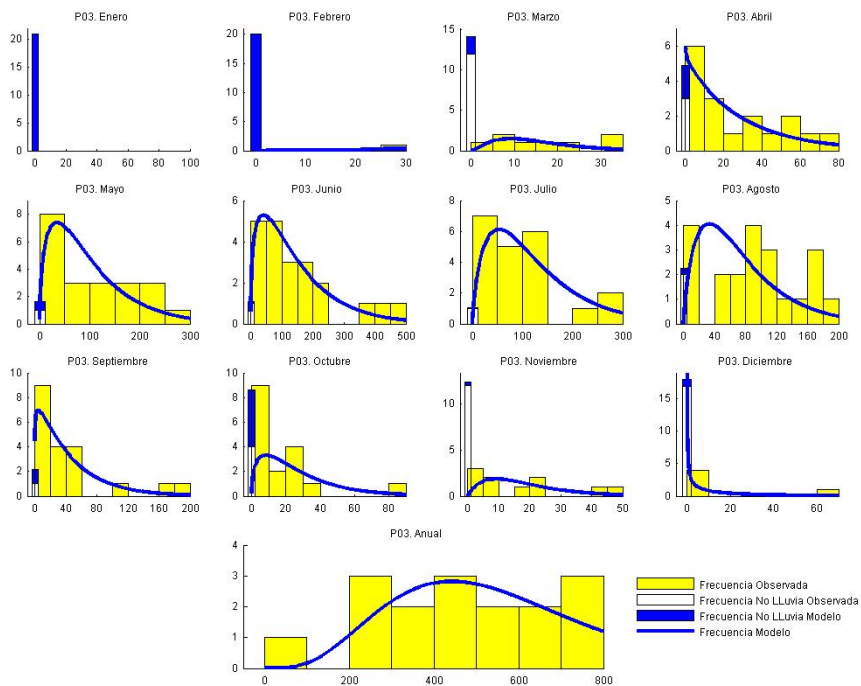


Figura A 8. P1, Angostura en Valdivia de Paine.

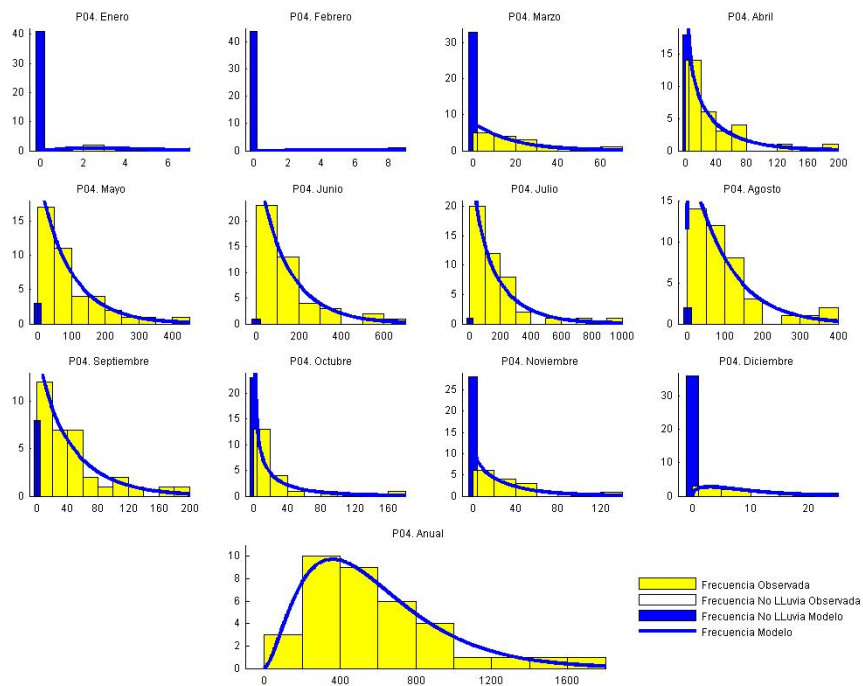




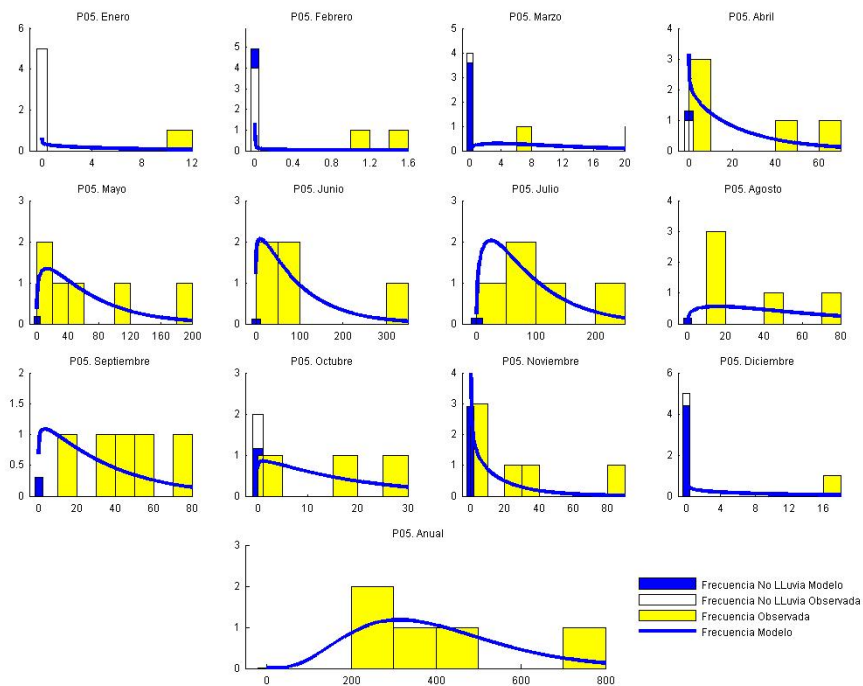
**Figura A 9. P2, Antupirén.**



**Figura A 10. P3, Barrera Loncha.**



**Figura A 11. P4, Caleu.**



**Figura A 12. P5, Campus San Joaquín U.C.**

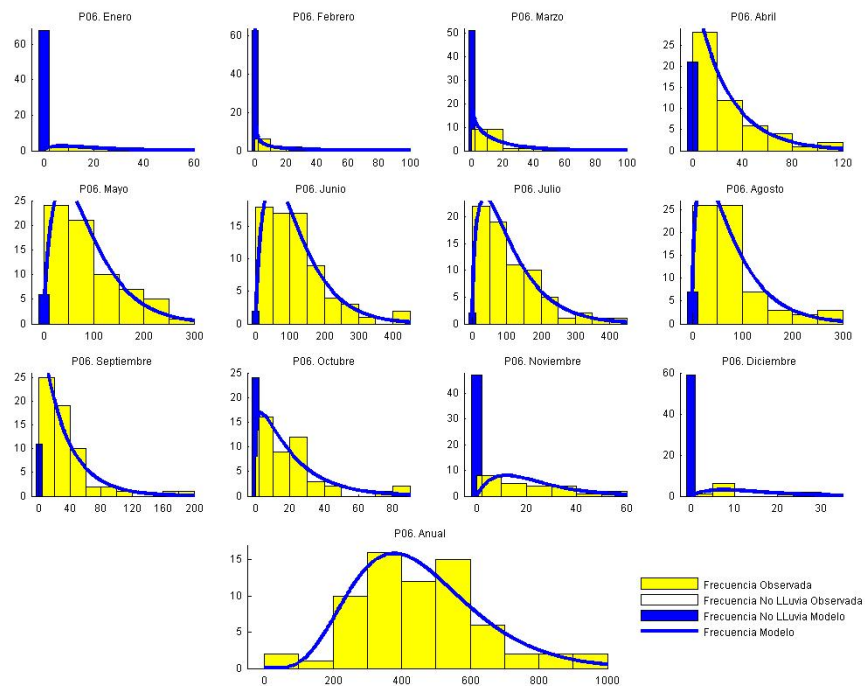


Figura A 13. P6, Carmen de las Rosas.

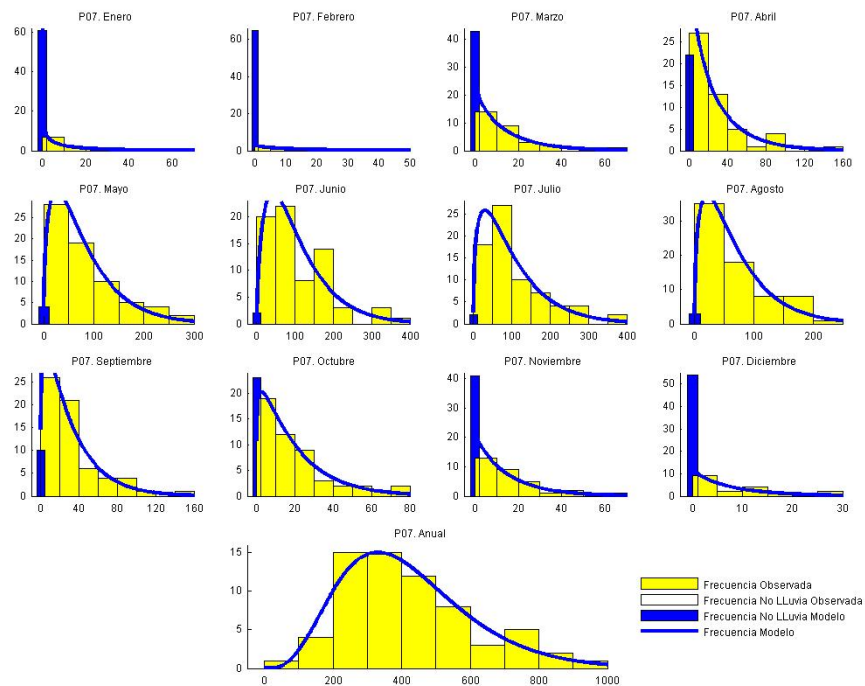
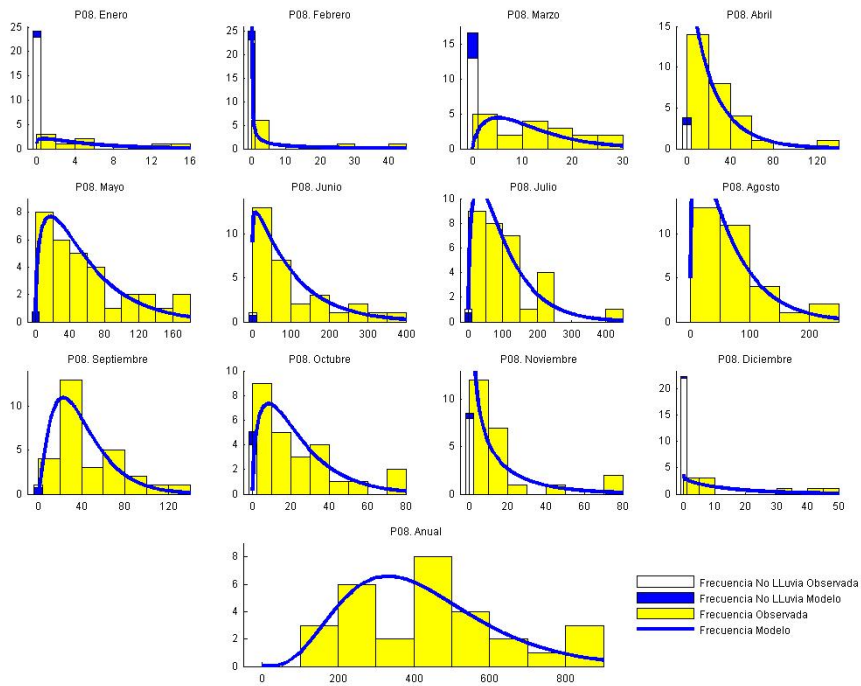
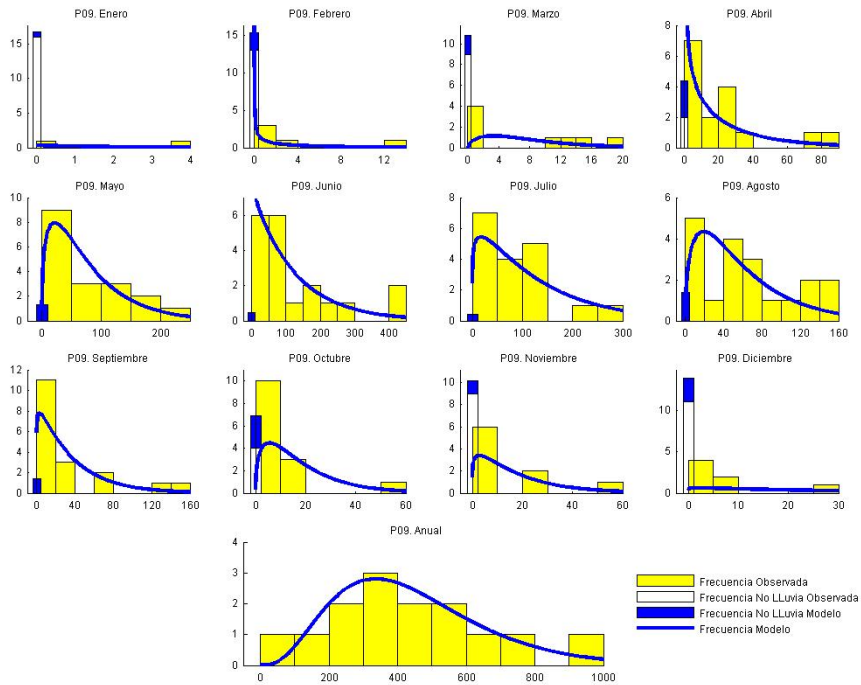


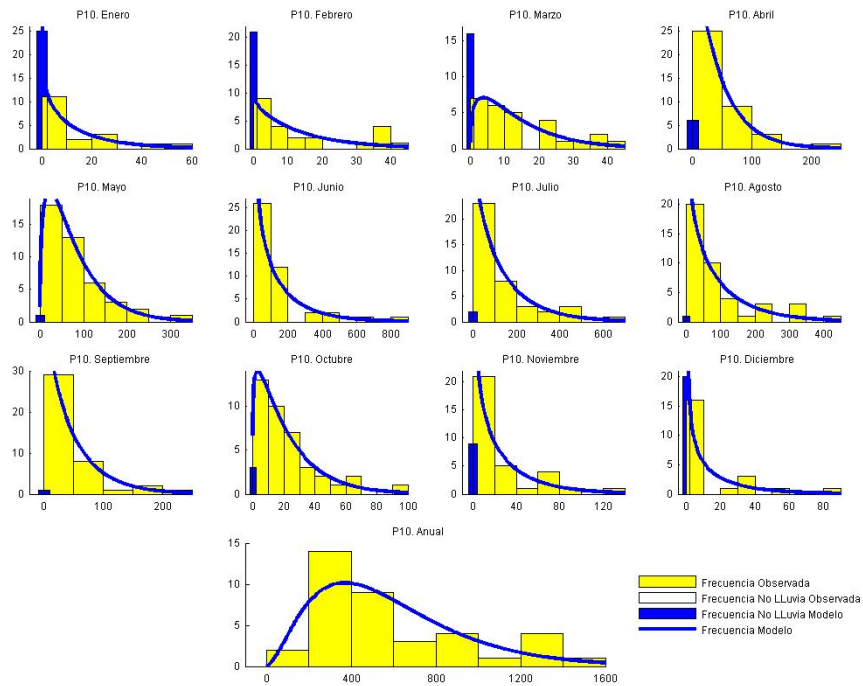
Figura A 14. P7, Cerrillos de Leyda.



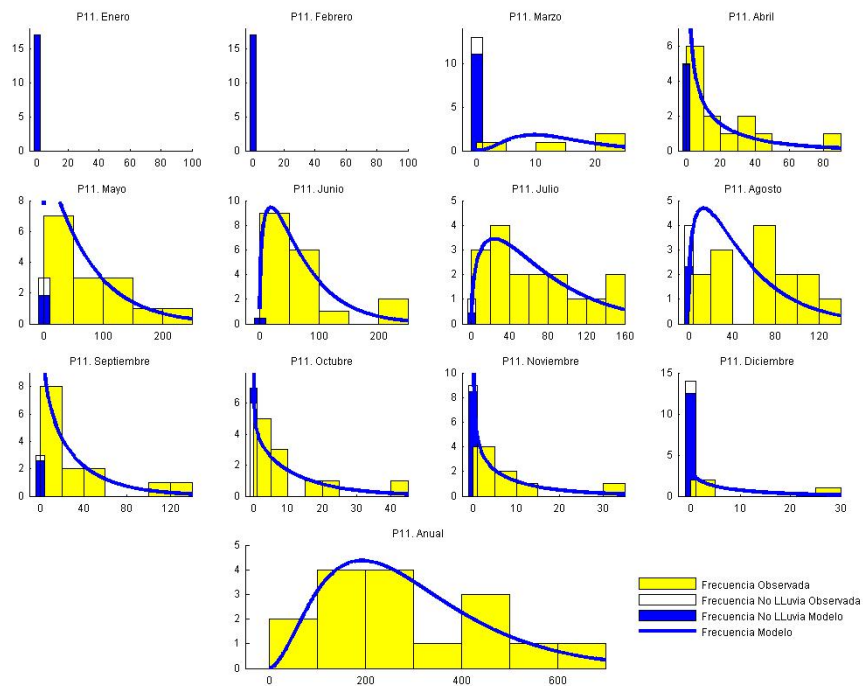
**Figura A 15. P8, Cerro Calán.**



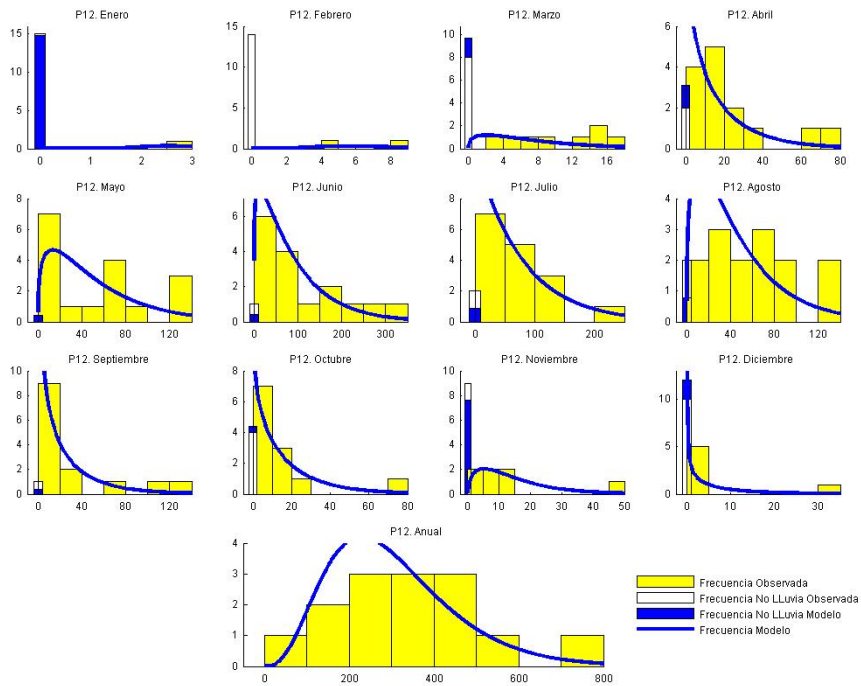
**Figura A 16. P9, El Vergel.**



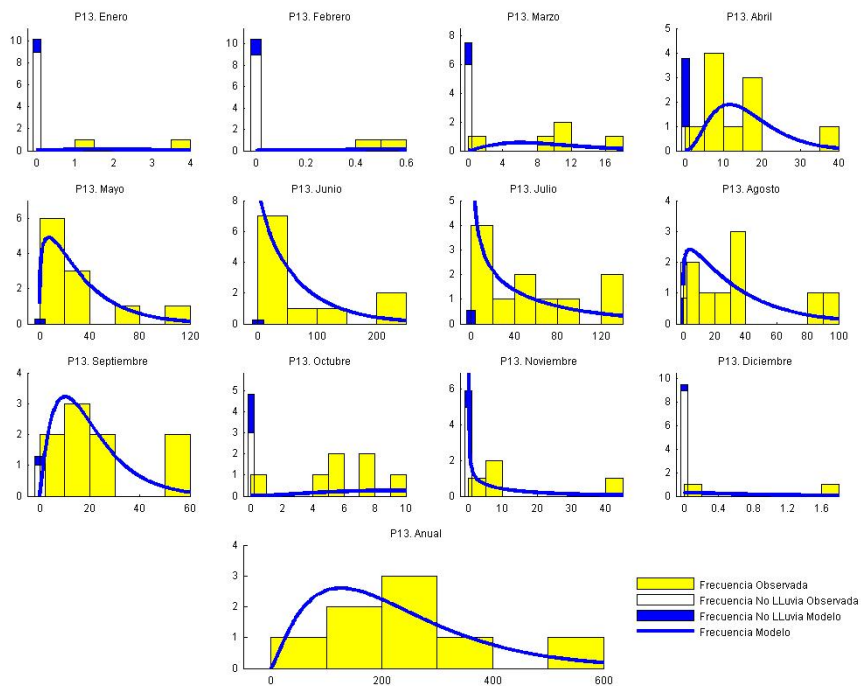
**Figura A 17. P10, El Yeso Embalse.**



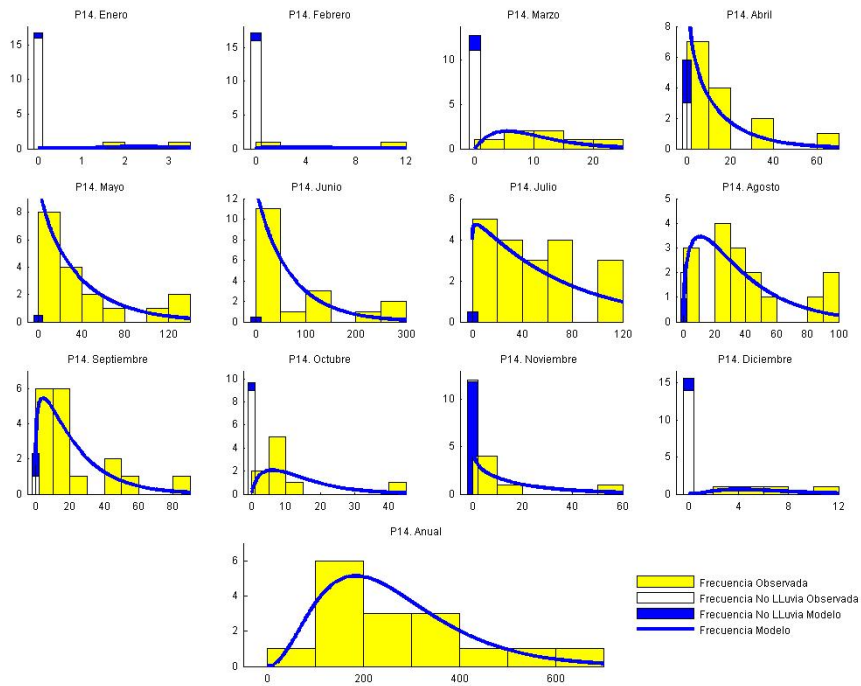
**Figura A 18. P11, Estero Puangue en Ruta 78.**



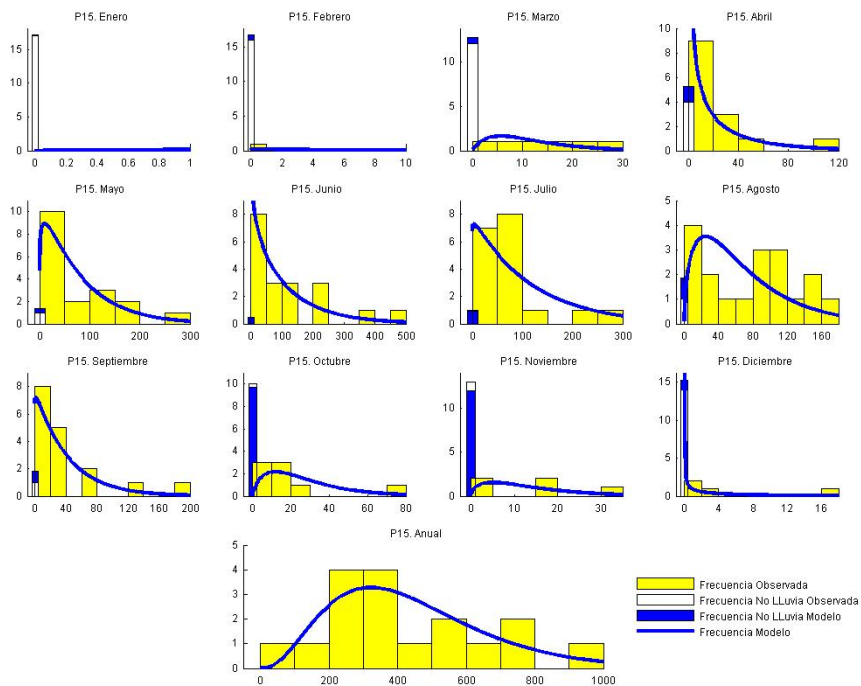
**Figura A 19. P12, Fundo Marruecos.**



**Figura A 20. P13, Huechún Andina.**

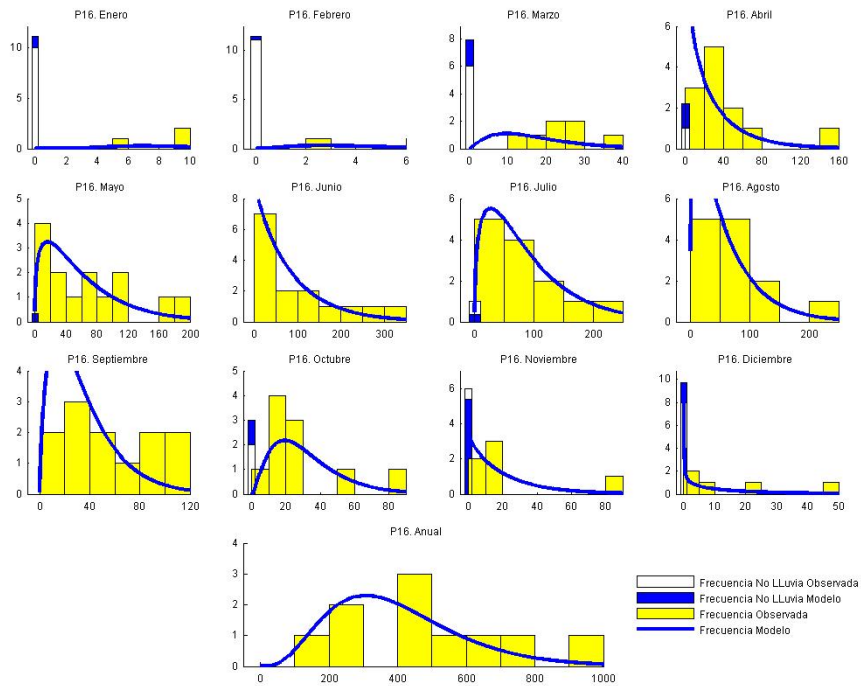


**Figura A 21. P14, Huenchún Embalse.**

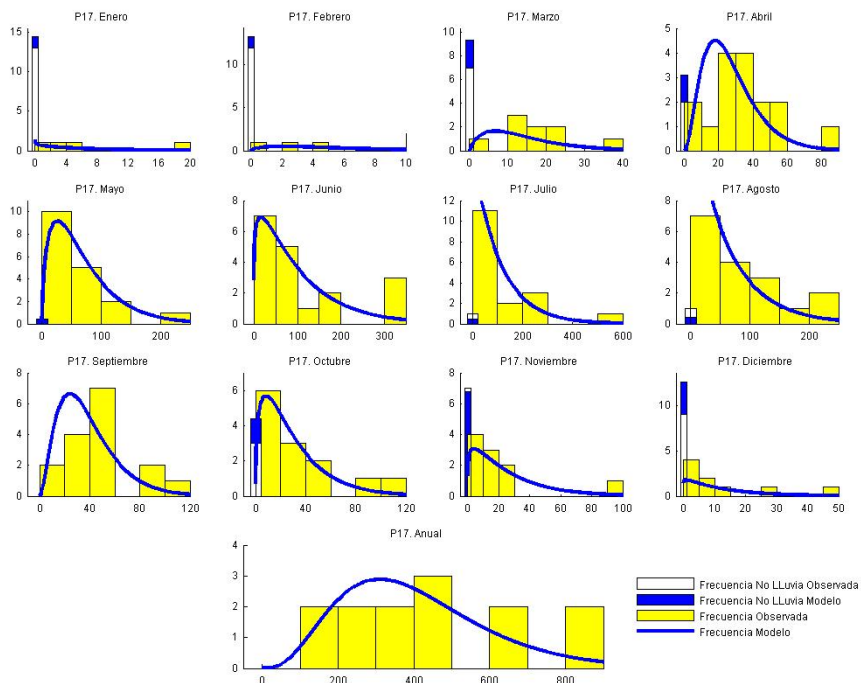


**Figura A 22. P15, Ibacache Alto.**



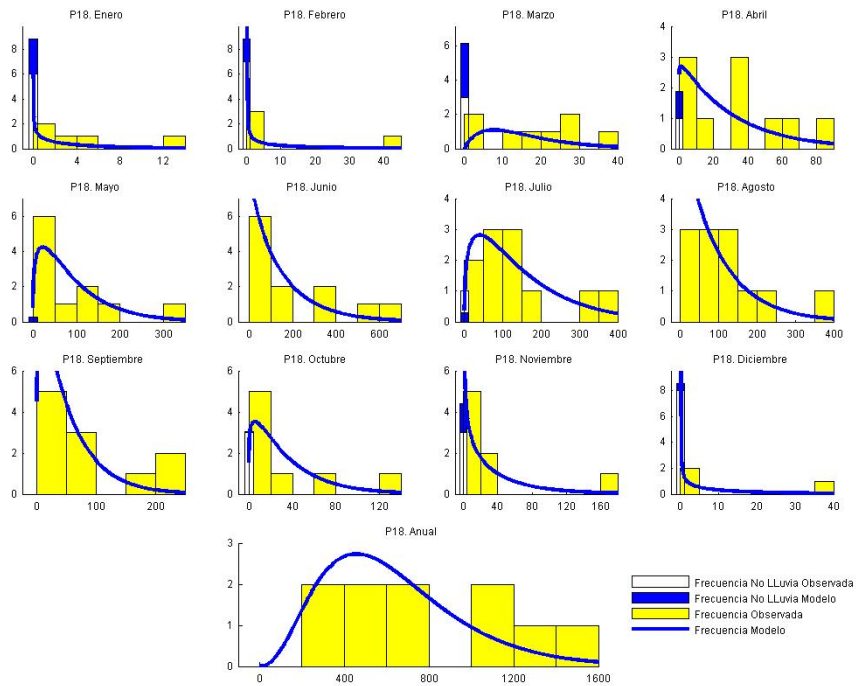


**Figura A 23. P16, La Dehesa.**

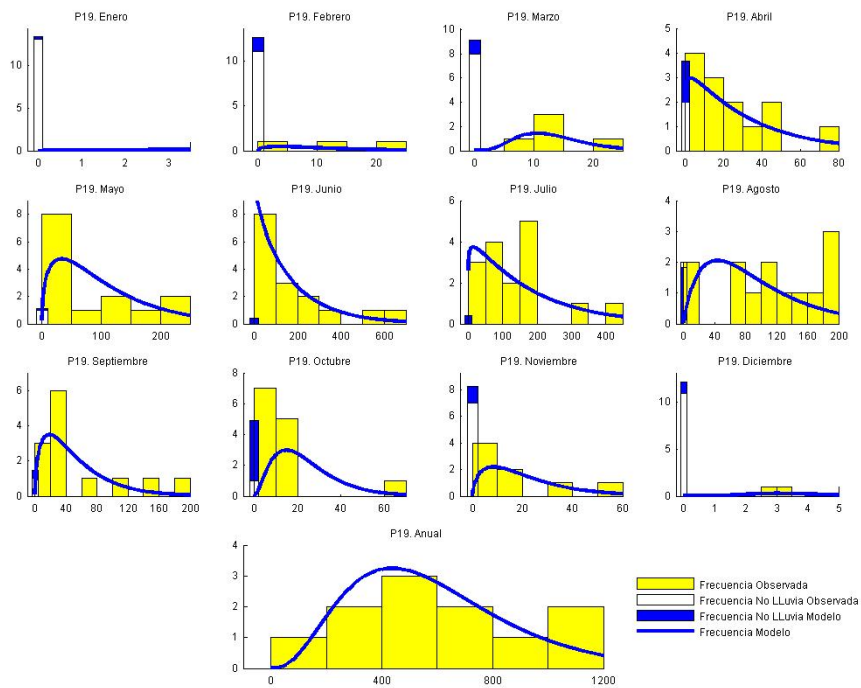


**Figura A 24. P17, La Ermita Bocatoma Central.**

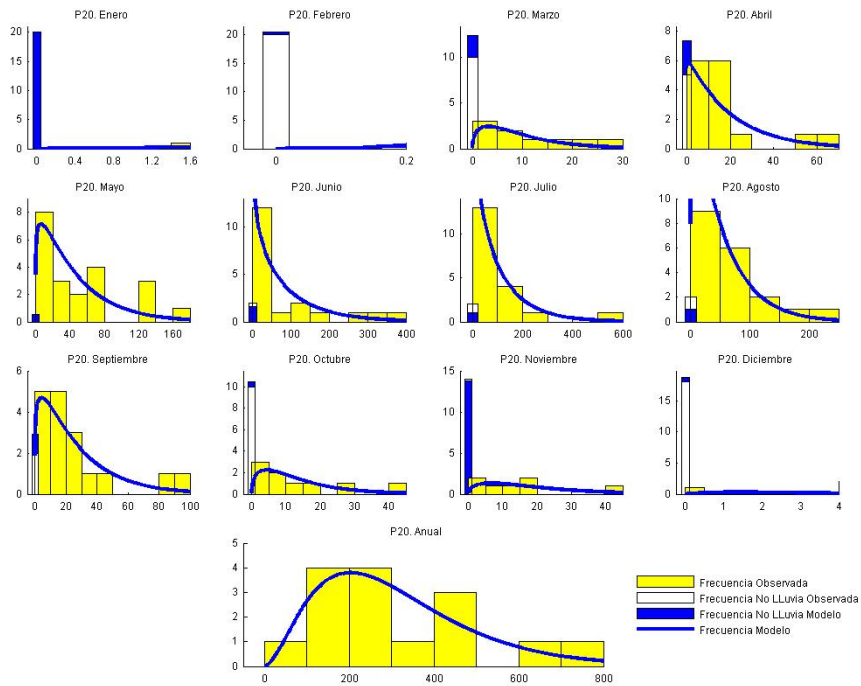




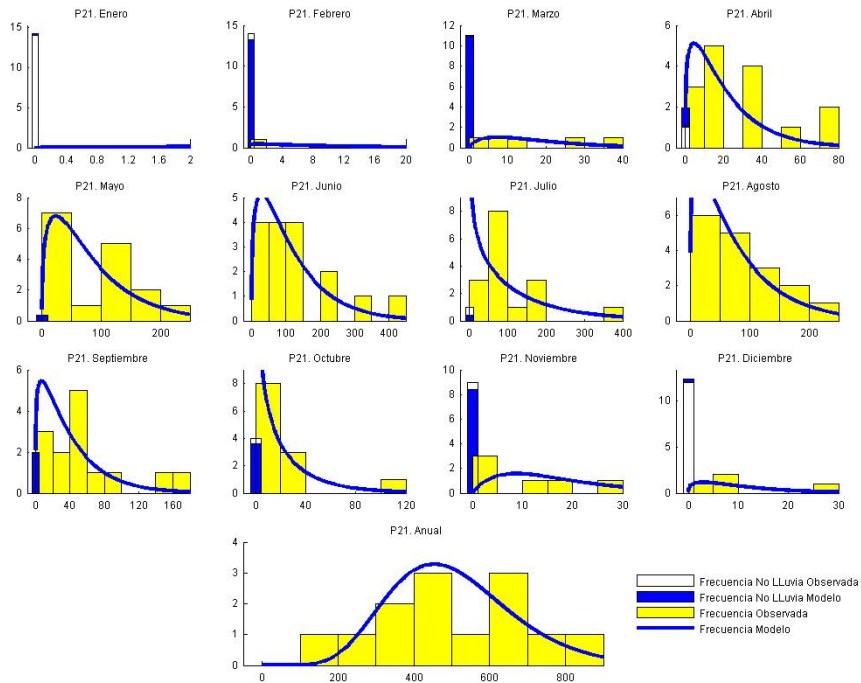
**Figura A 25. P18, La Obra Recinto Emos.**



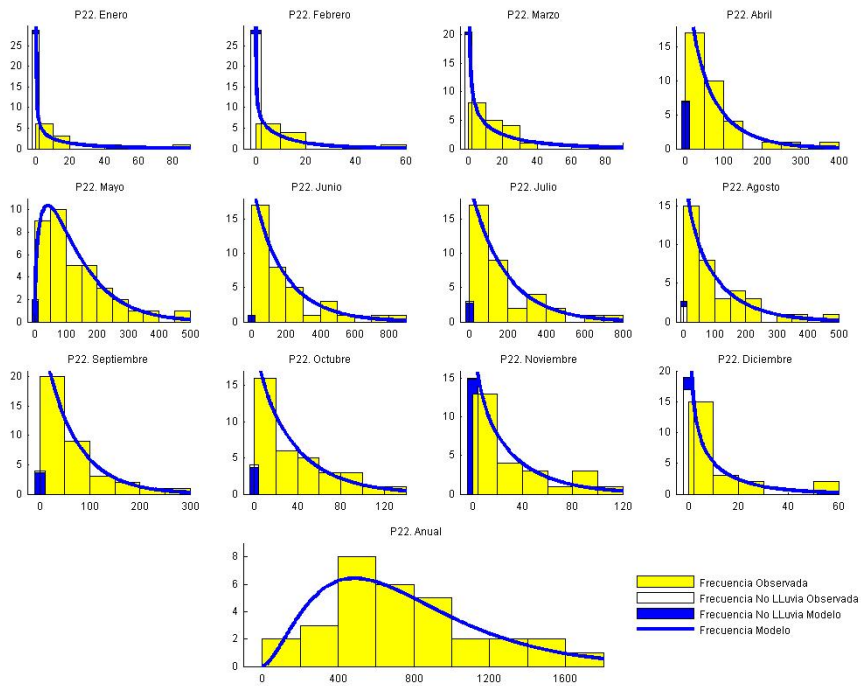
**Figura A 26. P19, Laguna Aculeo.**



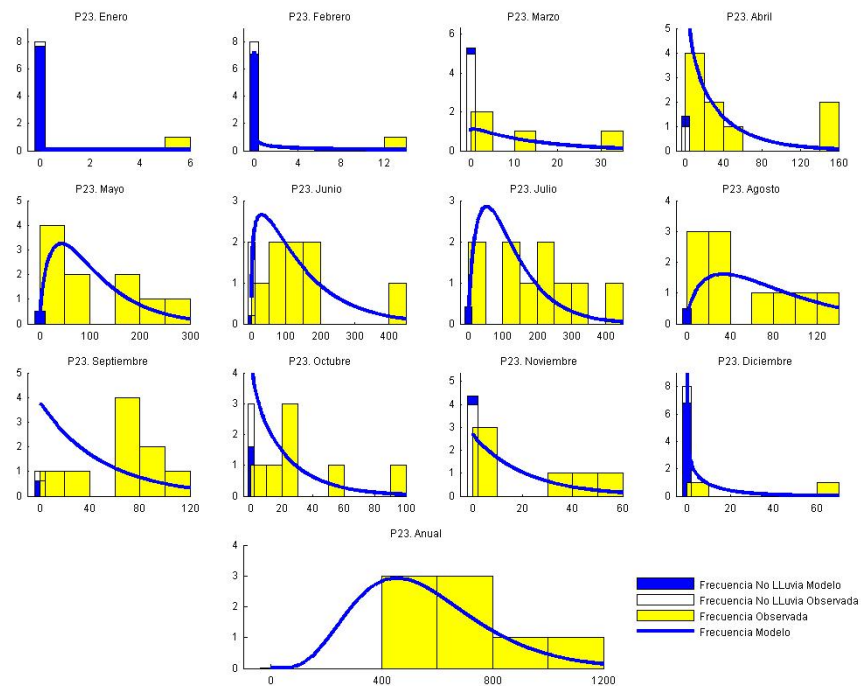
**Figura A 27. P20, Las Bateas Fundo.**



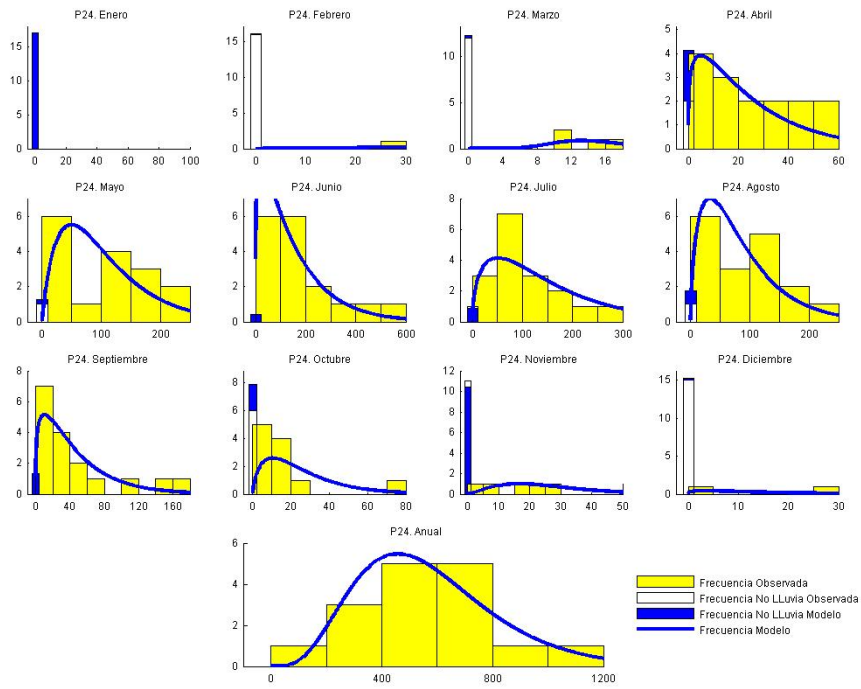
**Figura A 28. P21, Las Dos Puertas Fundo.**



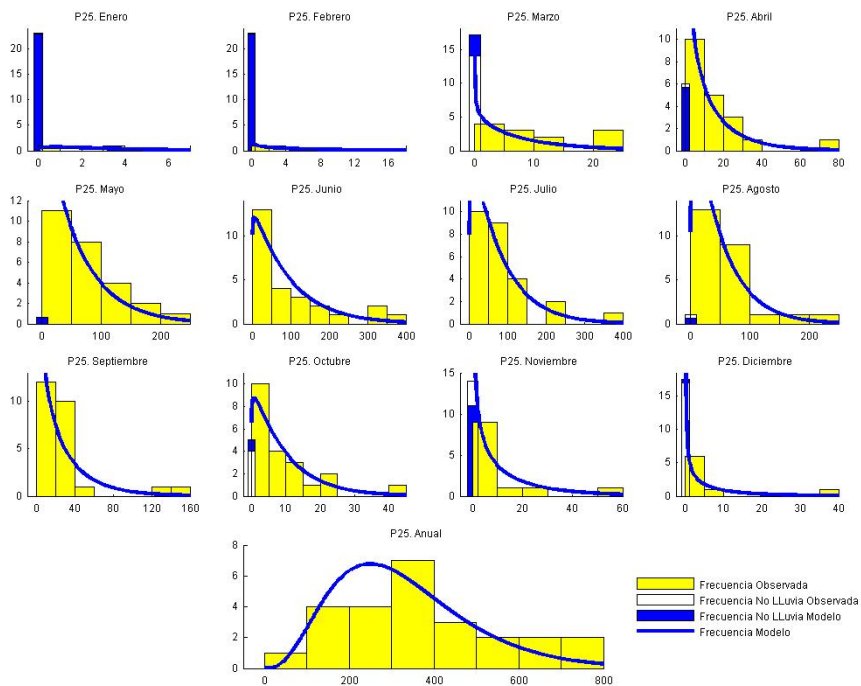
**Figura A 29. P22, Las Melosas.**



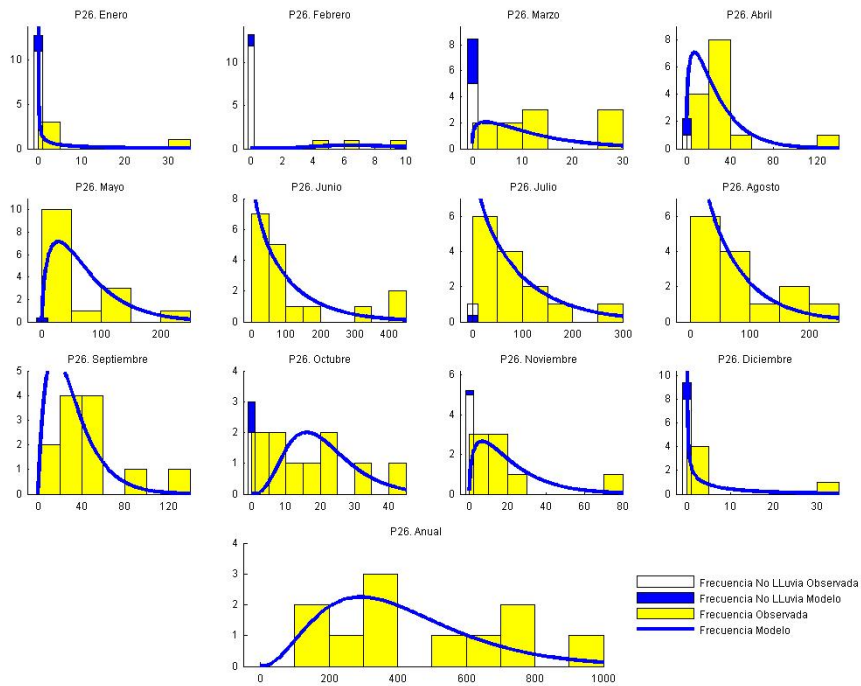
**Figura A 30. P23, Loncha.**



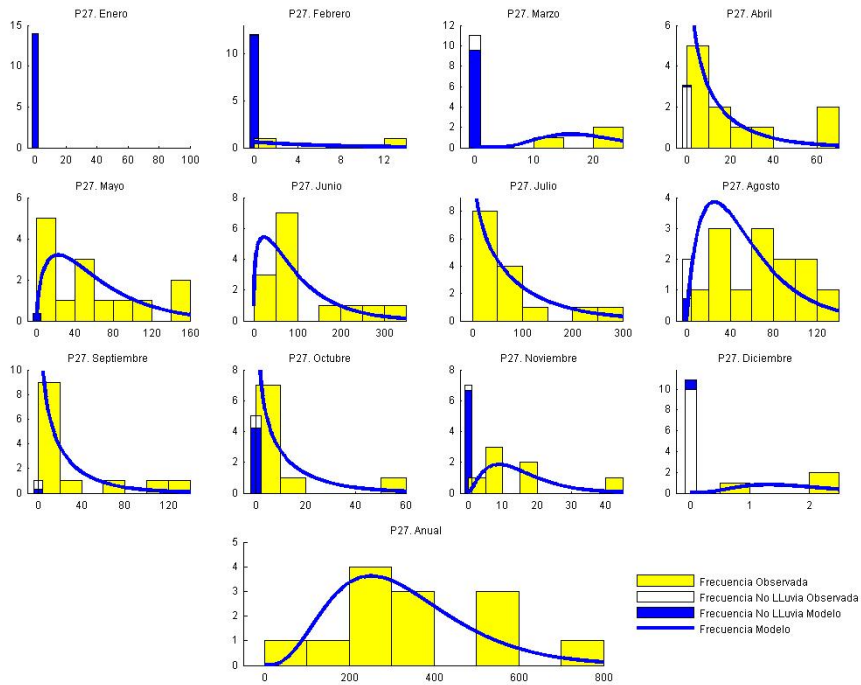
**Figura A 31. P24, Los Guindos.**



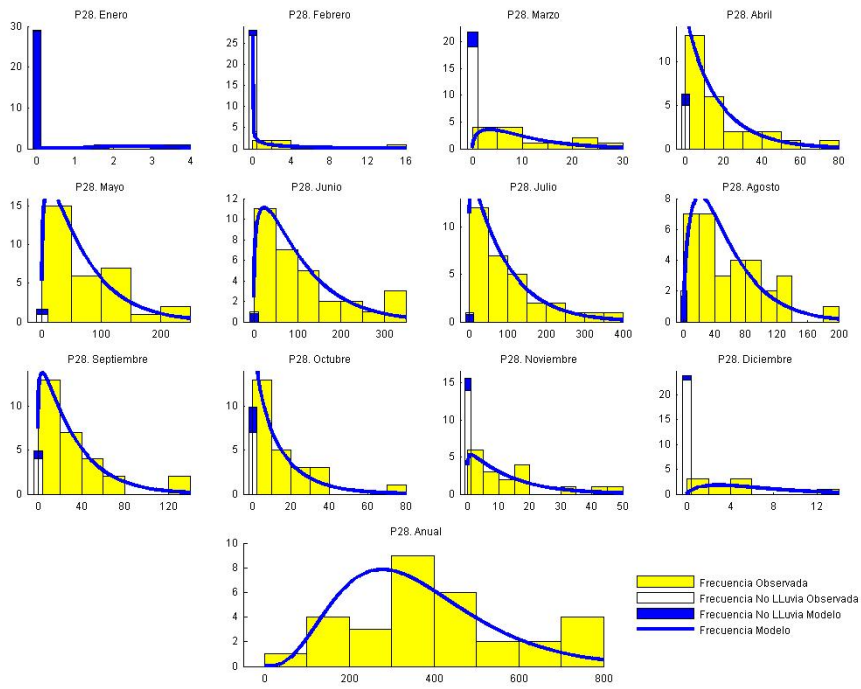
**Figura A 32. P25, Los Panguiles.**



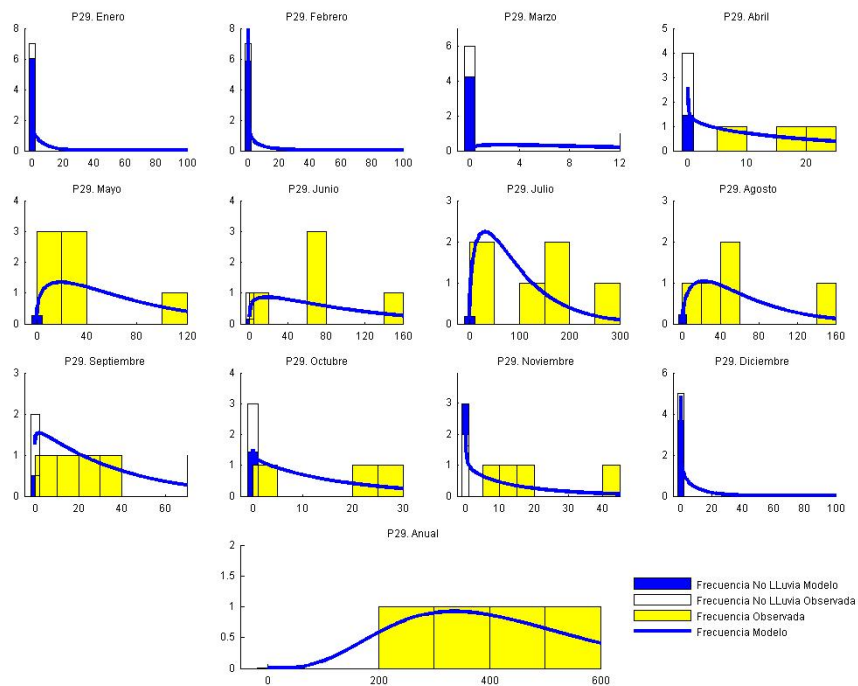
**Figura A 33. P26, Maitenes Bocatoma.**



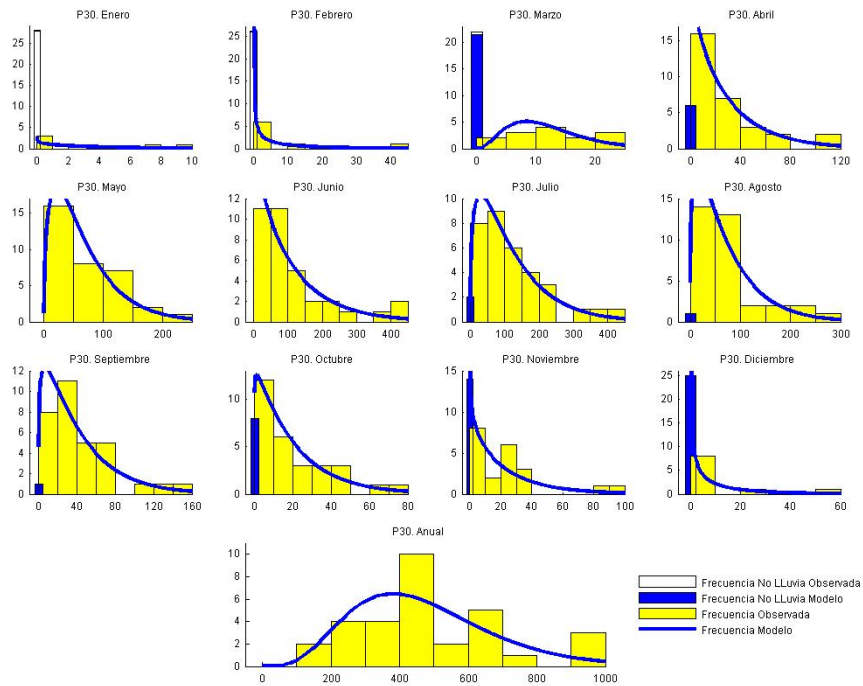
**Figura A 34. P27, Mallarauco.**



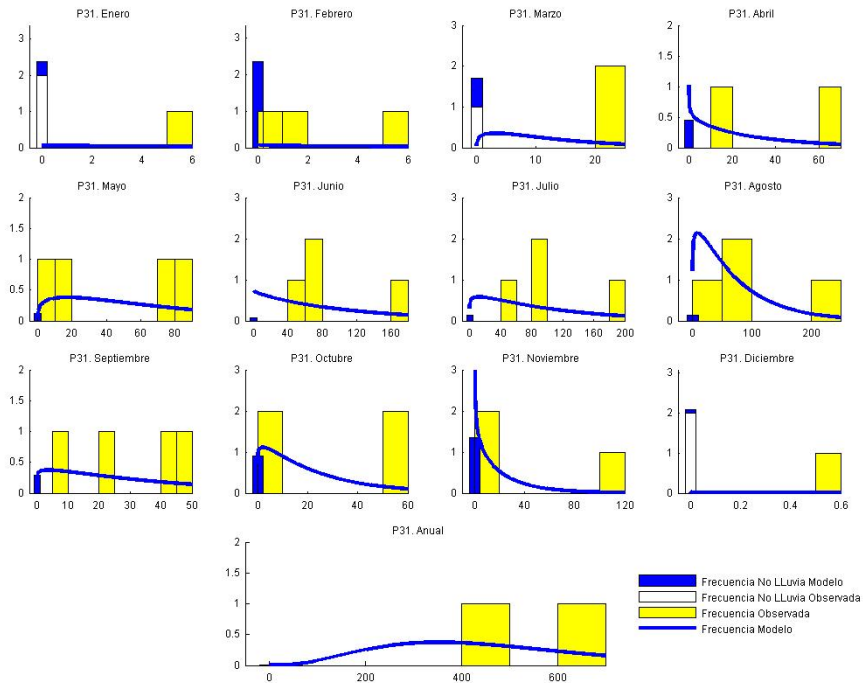
**Figura A 35. P28, Melipilla.**



**Figura A 36. P29, Peñaflores.**

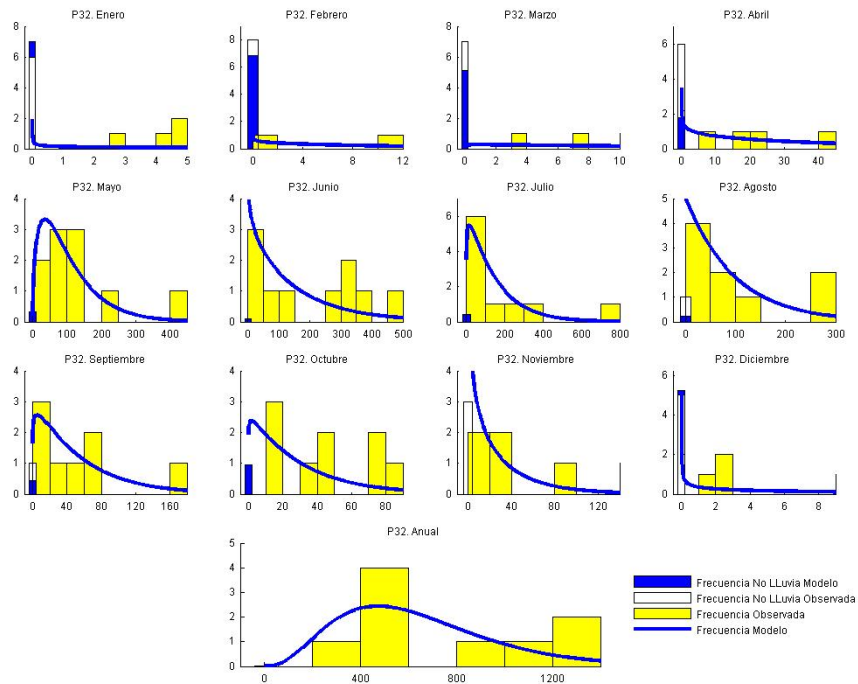


**Figura A 37. P30, Pirque.**

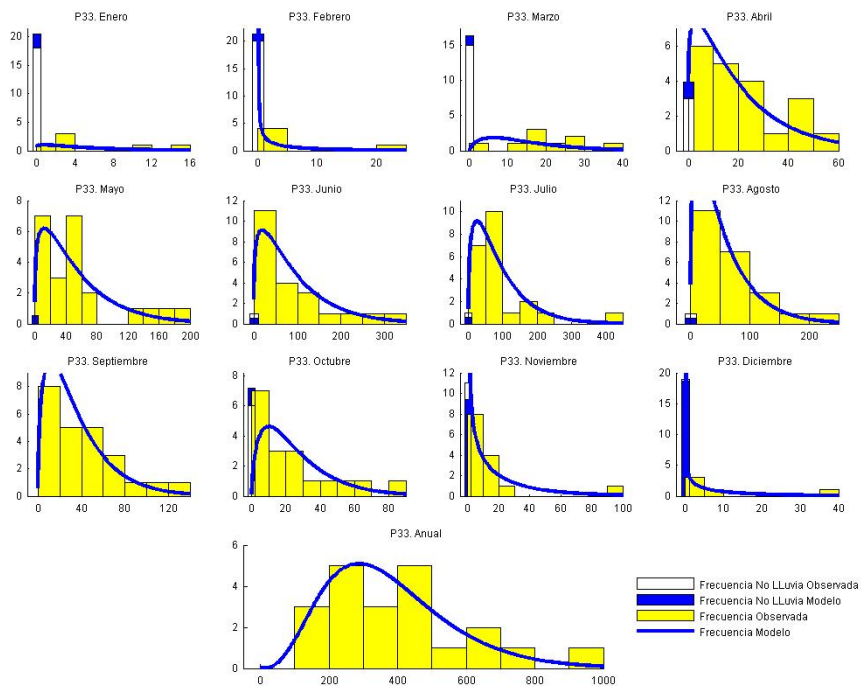


**Figura A 38. P31, Quebrada de Macul.**





**Figura A 39. P32, Queltehues.**



**Figura A 40. P33, Ramón Quebrada.**



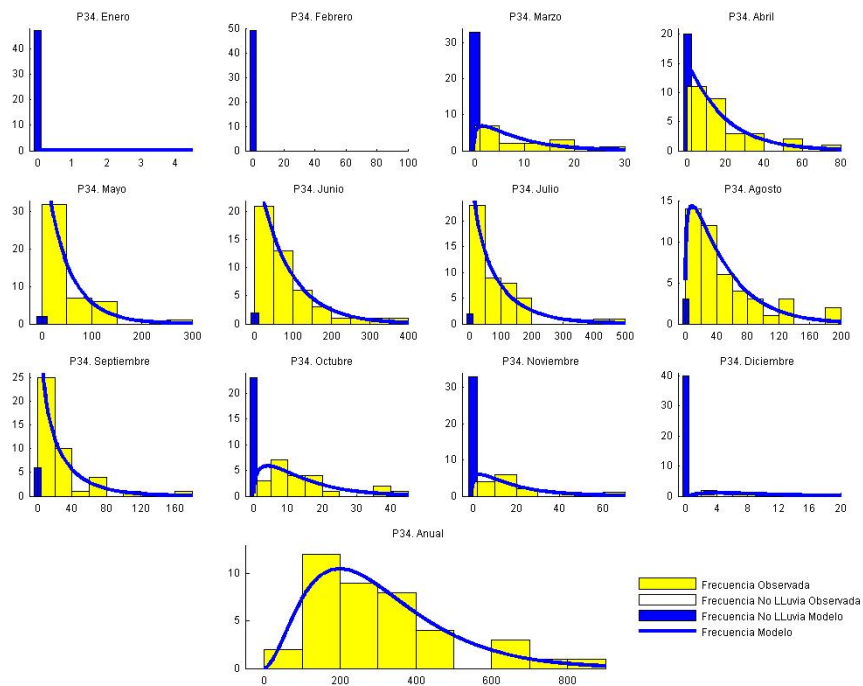


Figura A 41. P34, Rincón de Los Valles.

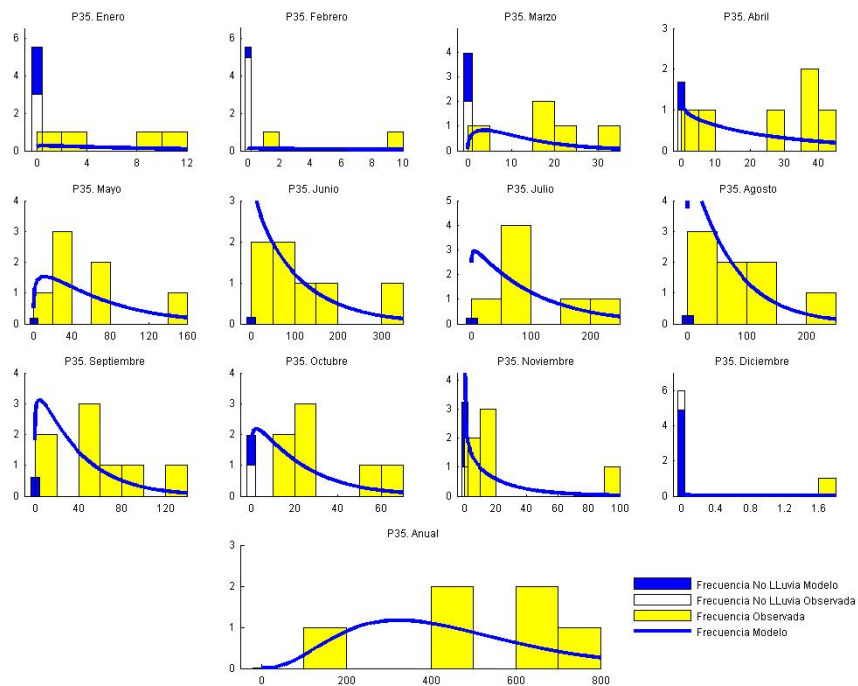
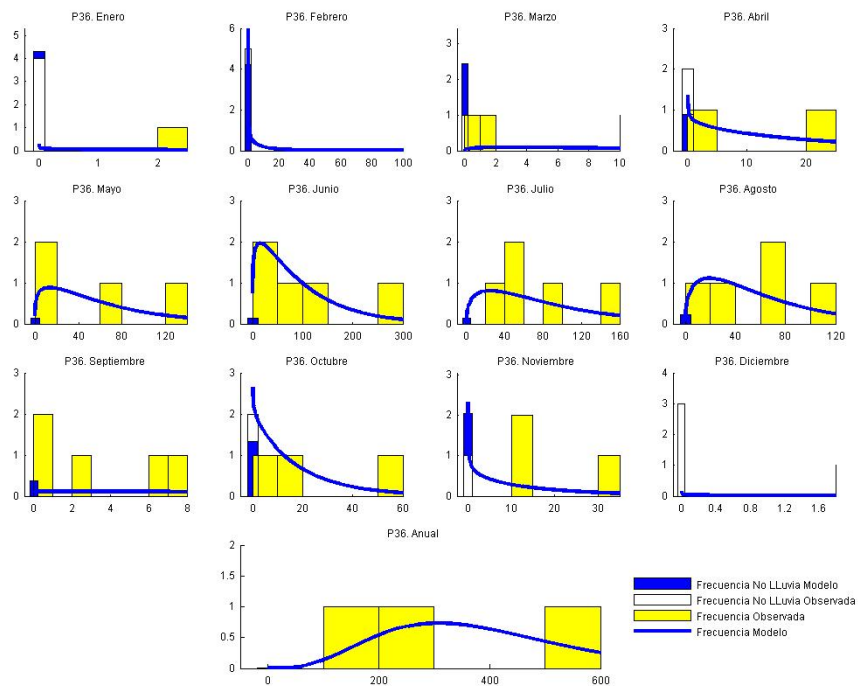
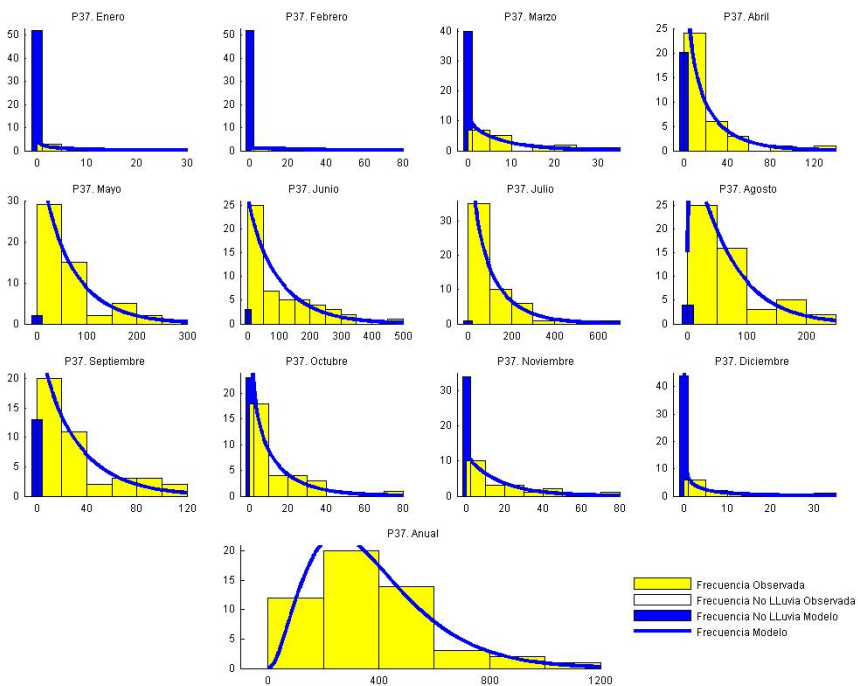


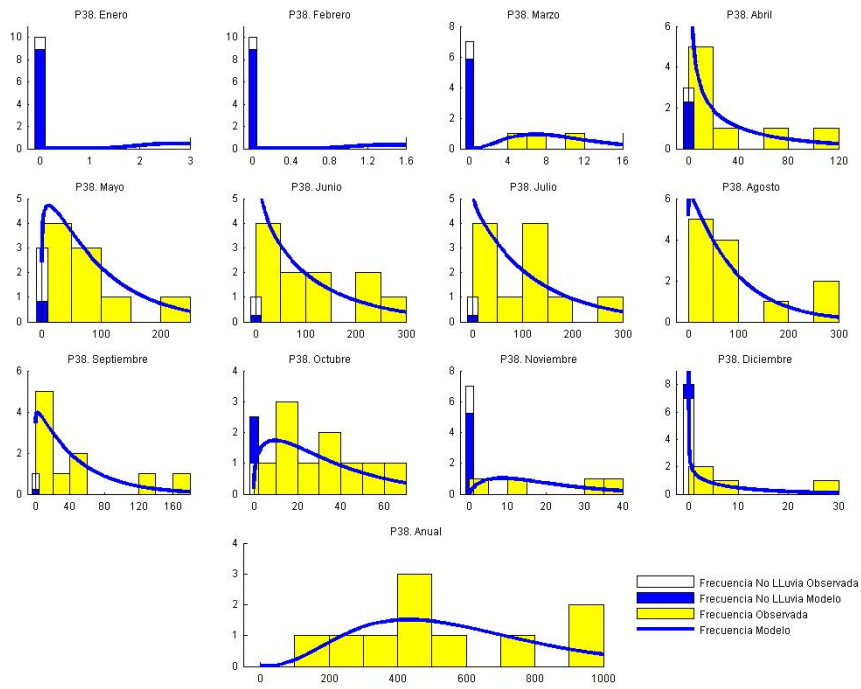
Figura A 42. P35, Río Mapocho en Los Almendros.



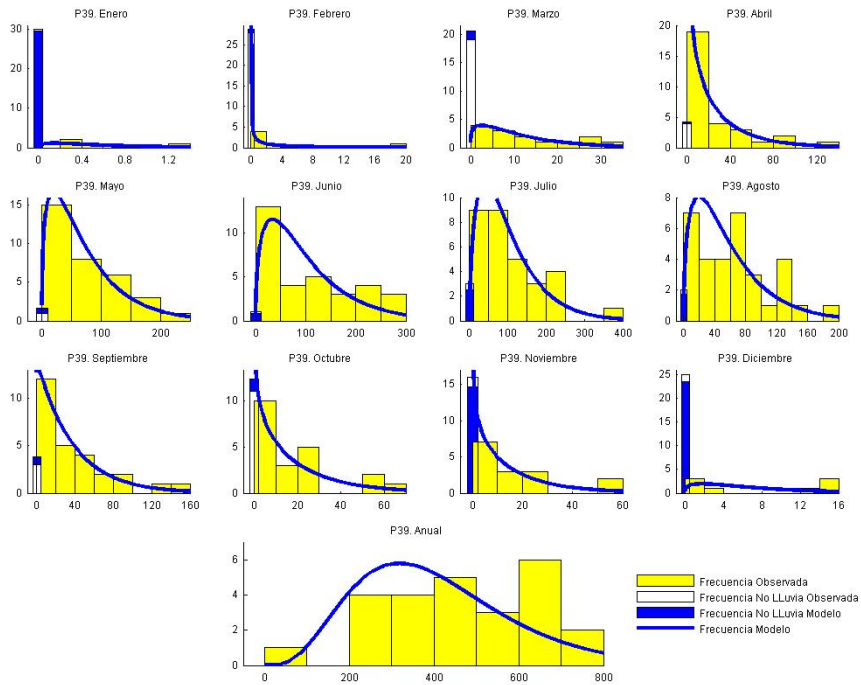
**Figura A 43. P36, Río Mapocho Rinconada de Maipú.**



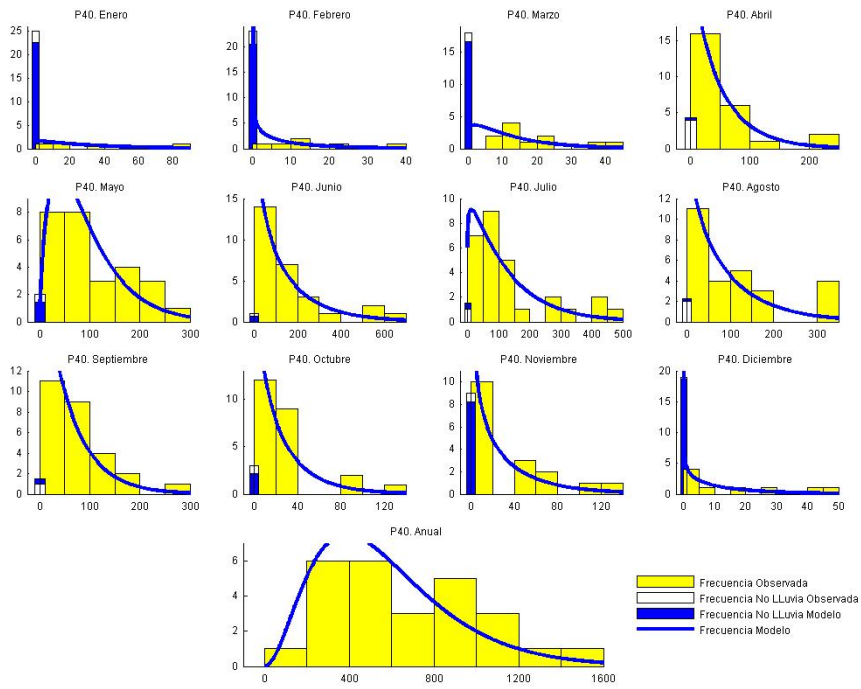
**Figura A 44. P37, Rungue Embalse.**



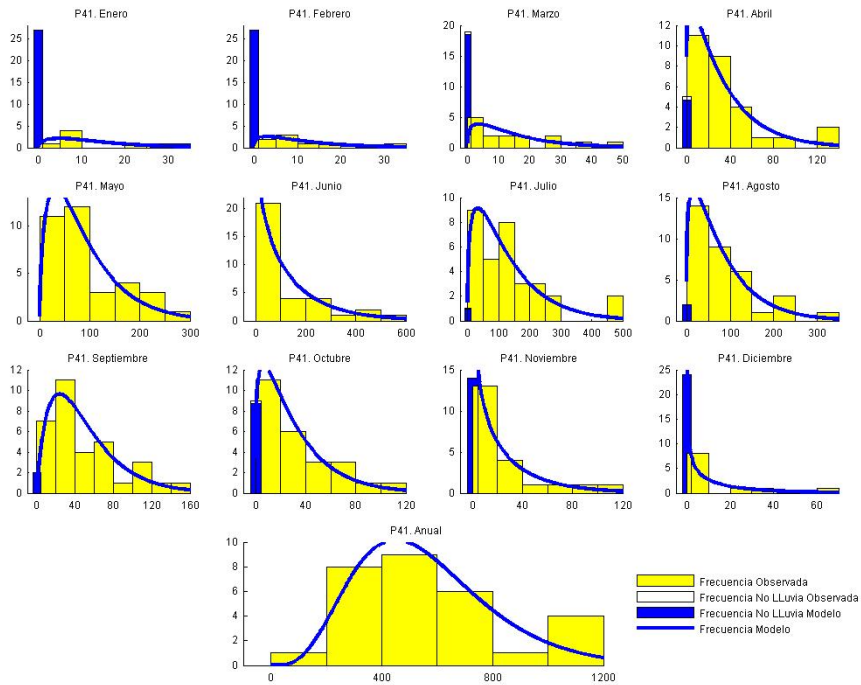
**Figura A 45. P38, San Alfonso.**



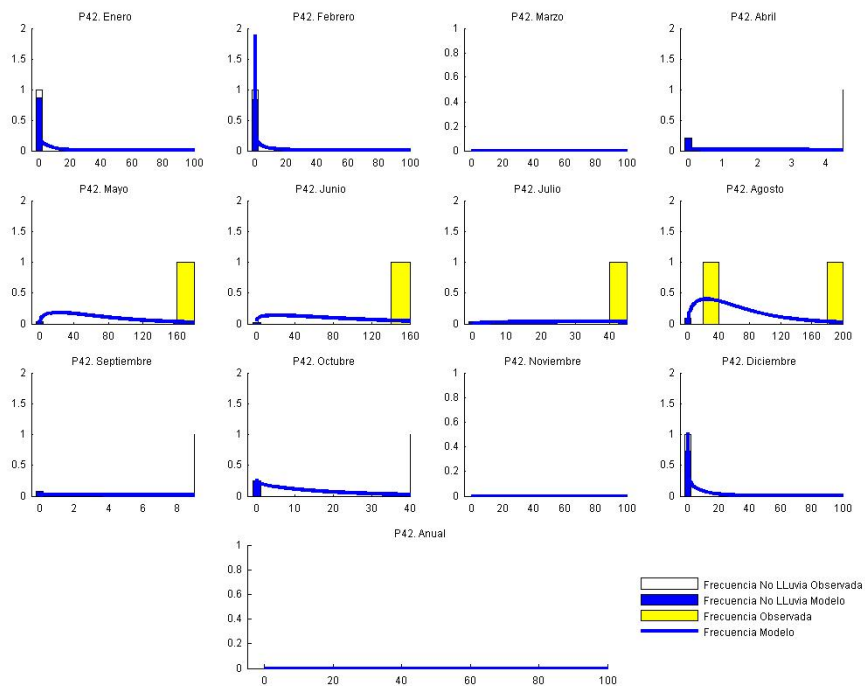
**Figura A 46. P39, San Antonio (Pta. Panul).**



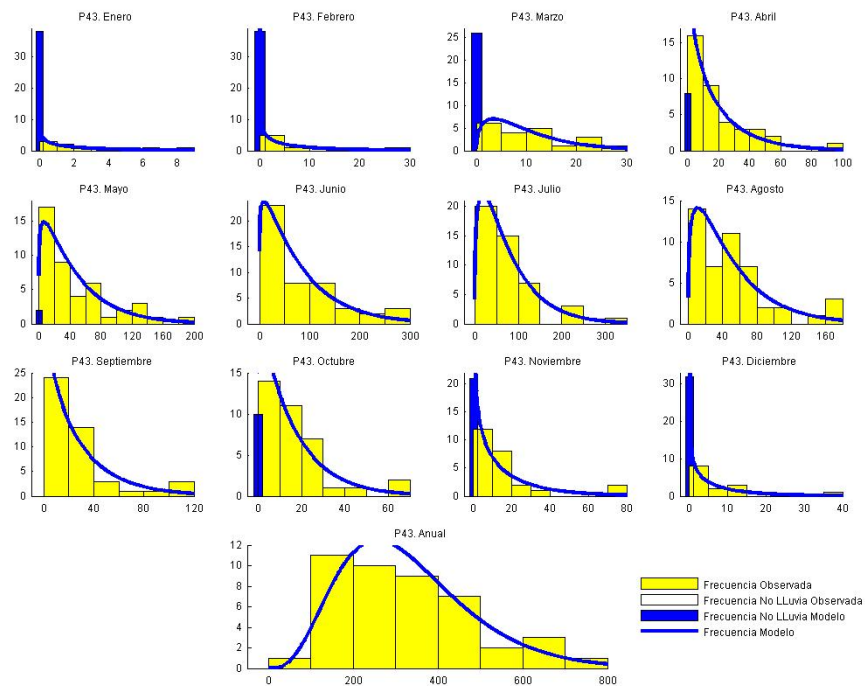
**Figura A 47. P40, San Gabriel.**



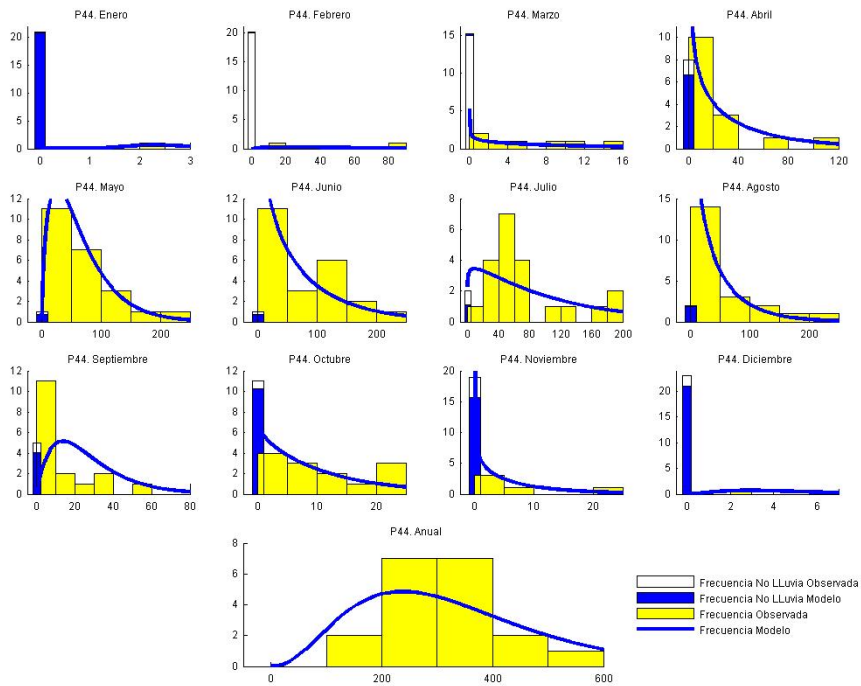
**Figura A 48. P41, San José Retén.**



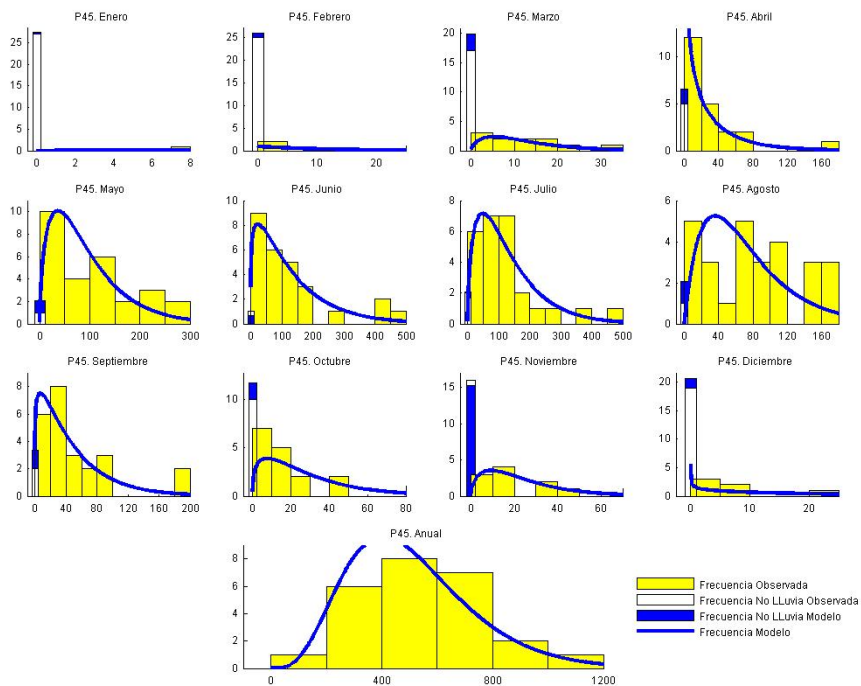
**Figura A 49. P42, Talagante.**



**Figura A 50. P43, Terraza Oficinas Centrales DGA.**



**Figura A 51. P44, Til-Til.**



**Figura A 52. P45, Villa Alhué.**

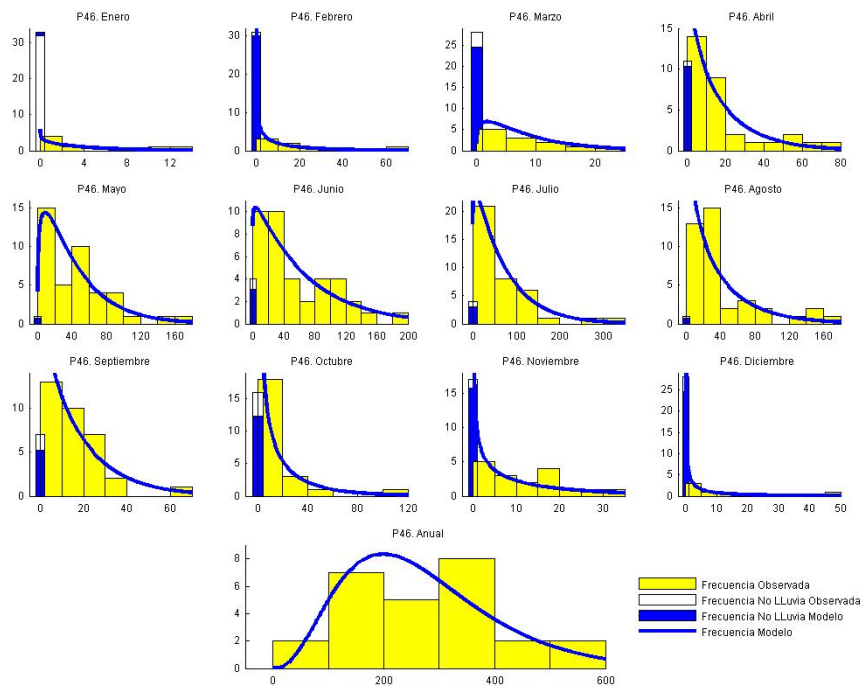


Figura A 53. P46, Batuco Retén.

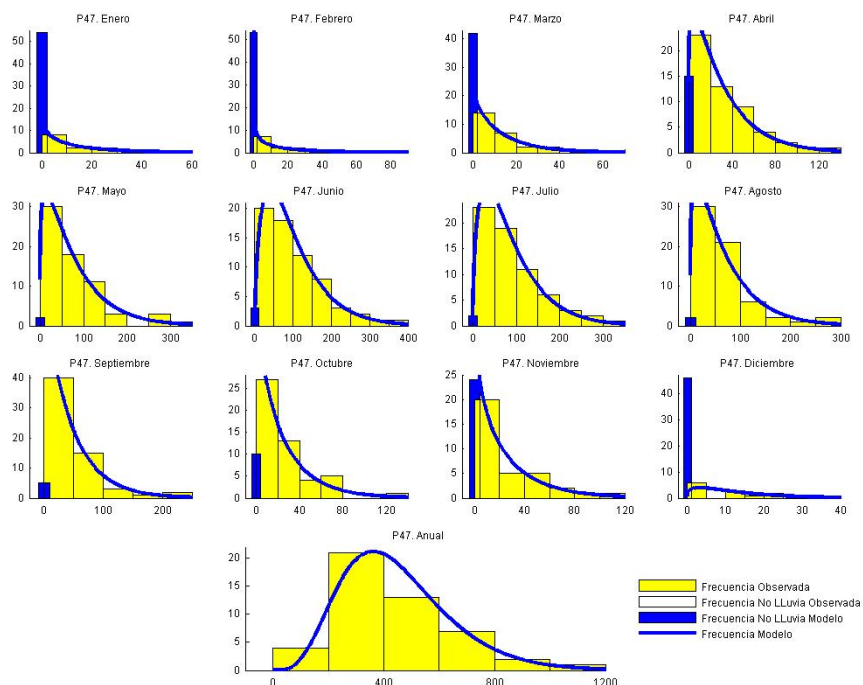


Figura A 54. P47, La Florida.



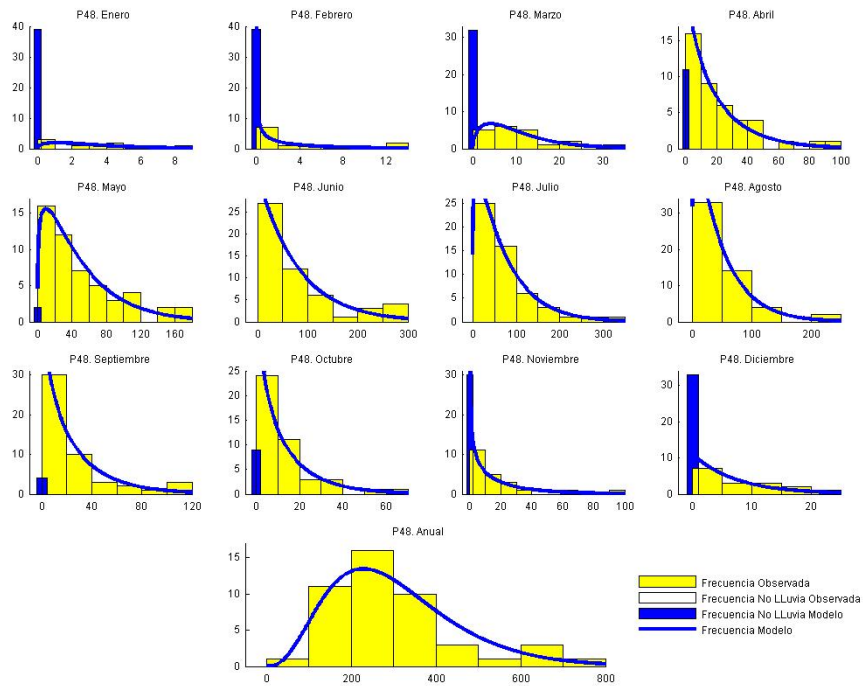


Figura A 55. P48, Los Cerrillos.

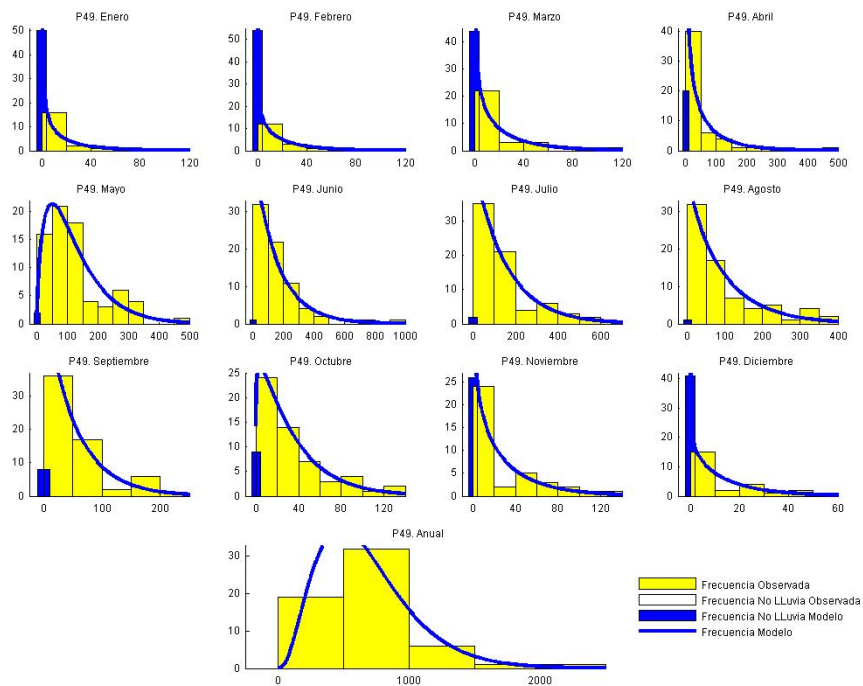
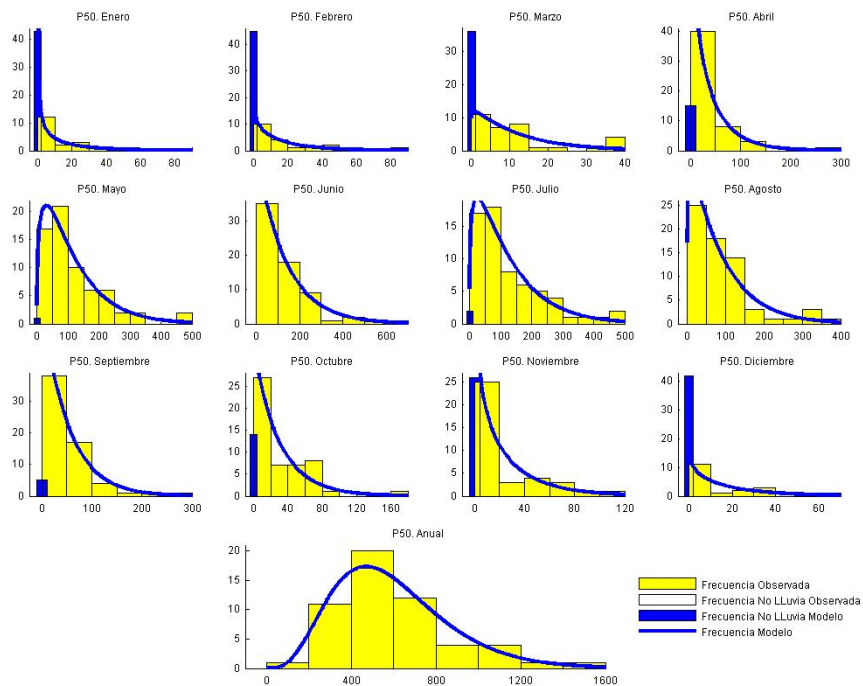
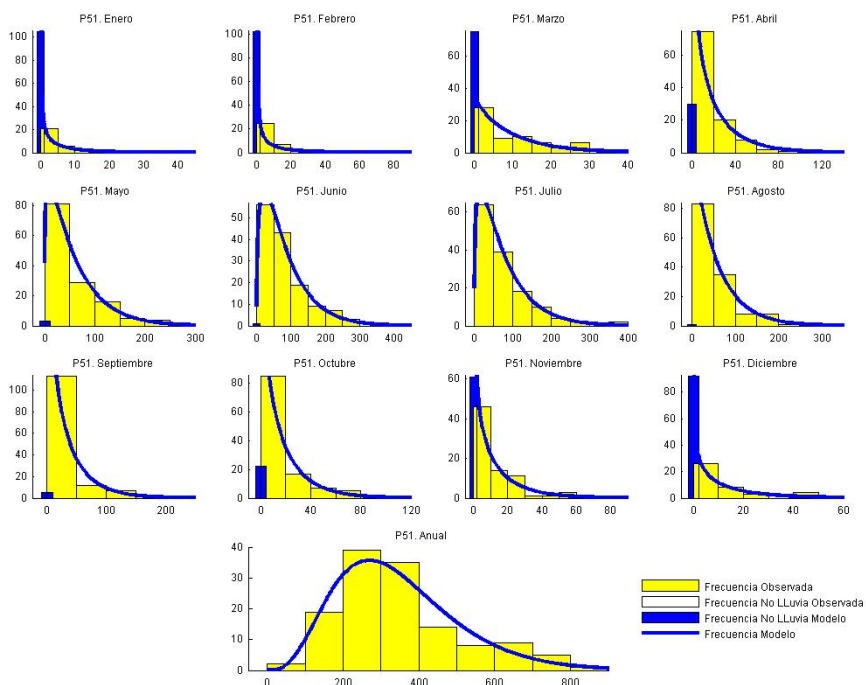


Figura A 56. P49, Queltehues DMC.

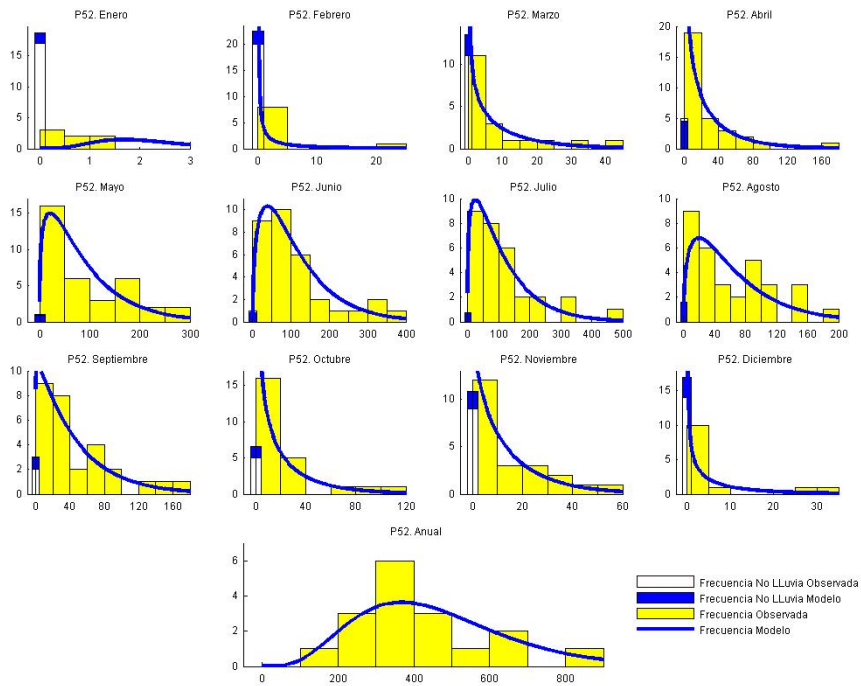




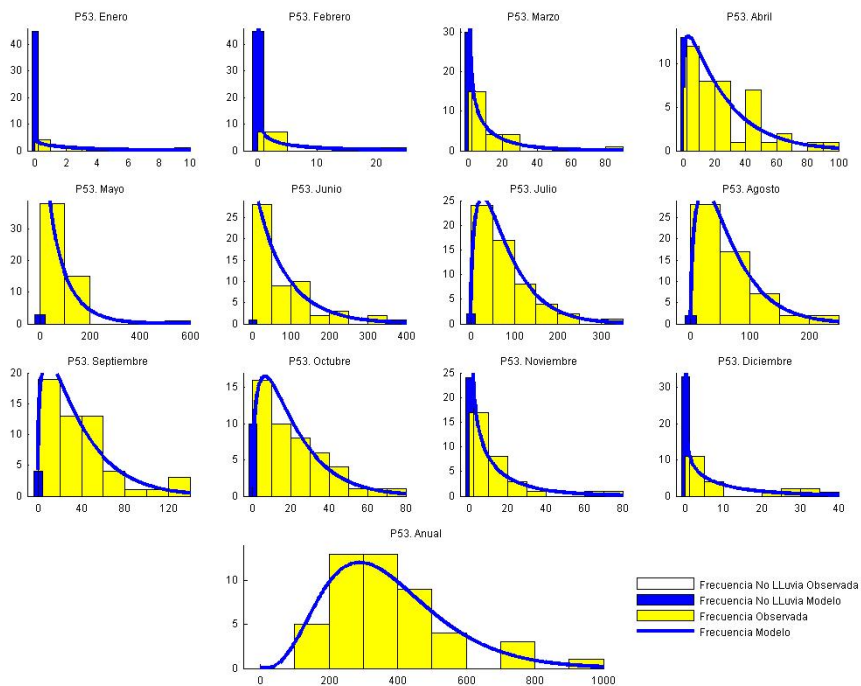
**Figura A 57. P50, San Jose de Maipo DMC.**



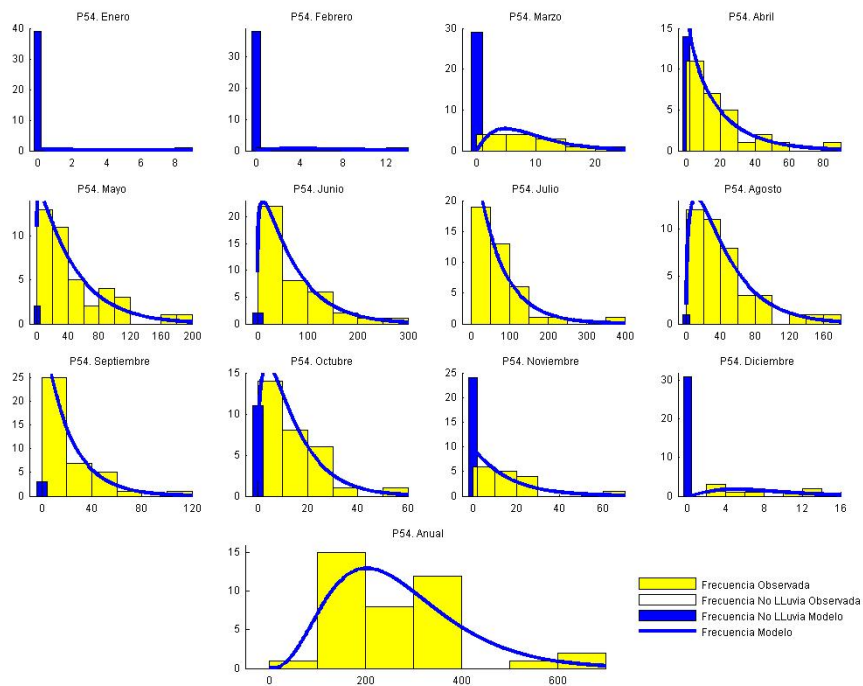
**Figura A 58. P51, Santiago Quinta Normal.**



**Figura A 59. P52, Santo Domingo.**

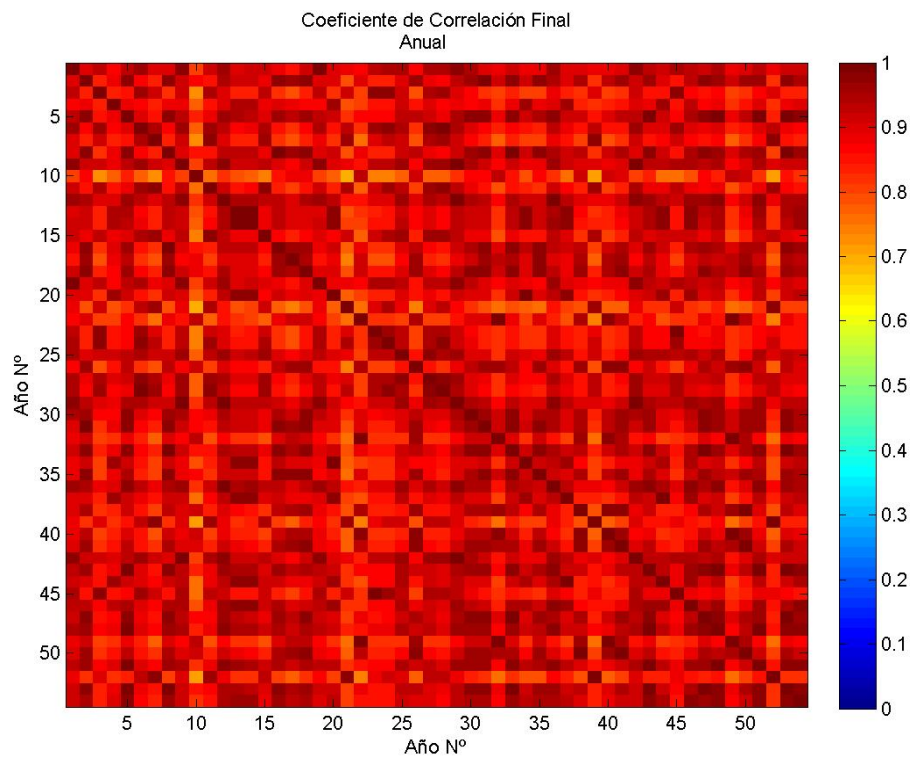


**Figura A 60. P53, Tobalaba.**

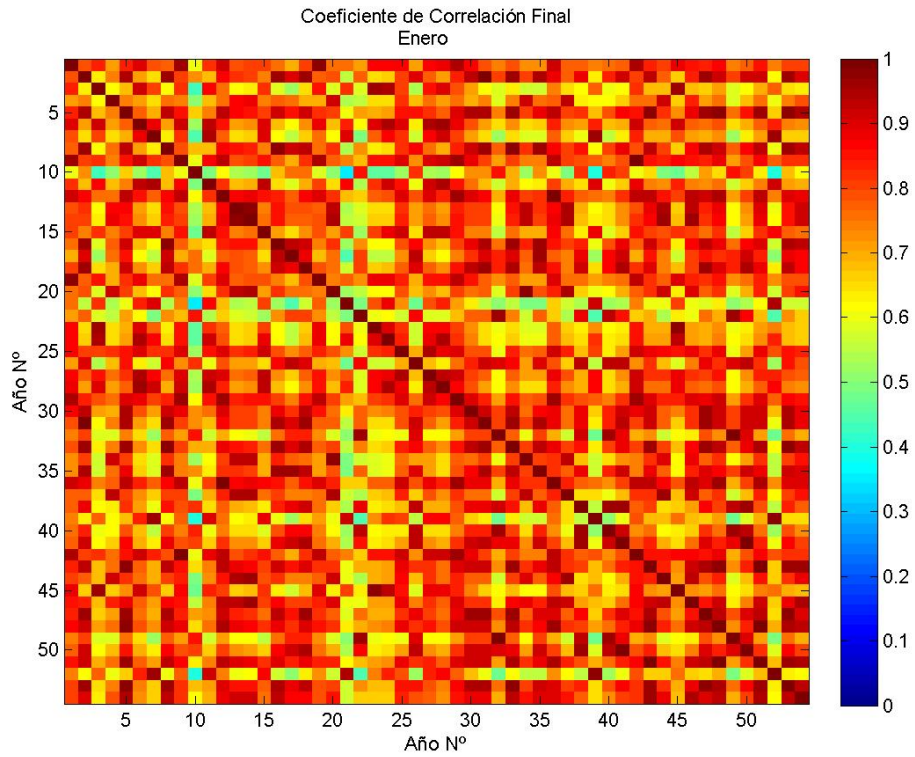


**Figura A 61. P54, Valle Hermoso.**

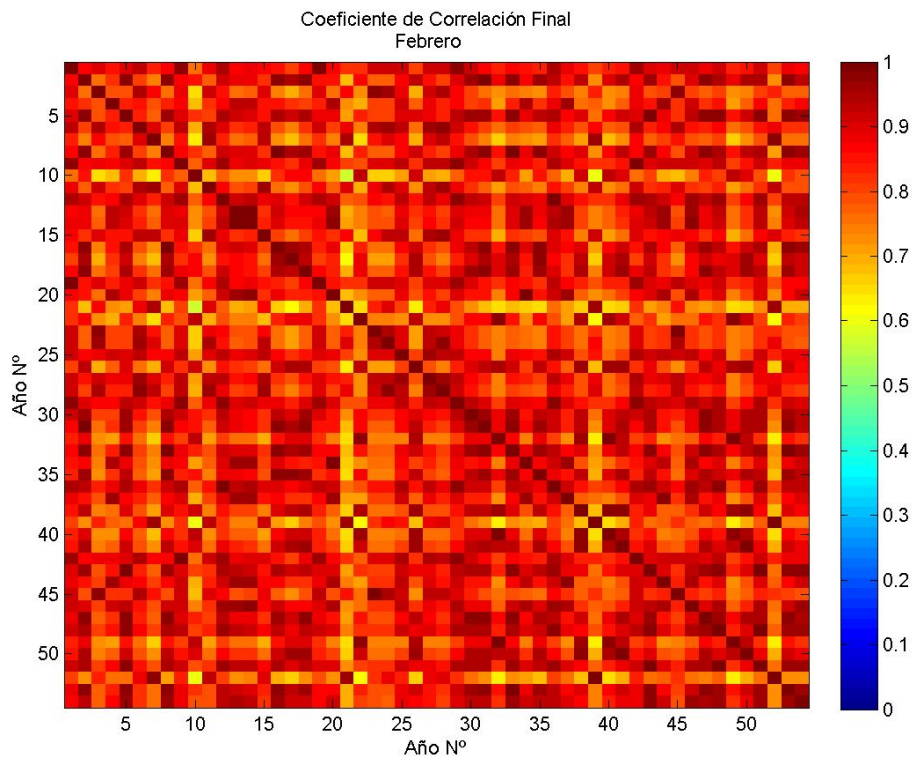
## Anexo 4. Estimación Matrices de Correlaciones.



**Figura 1. Matriz de Correlaciones. Anual.**

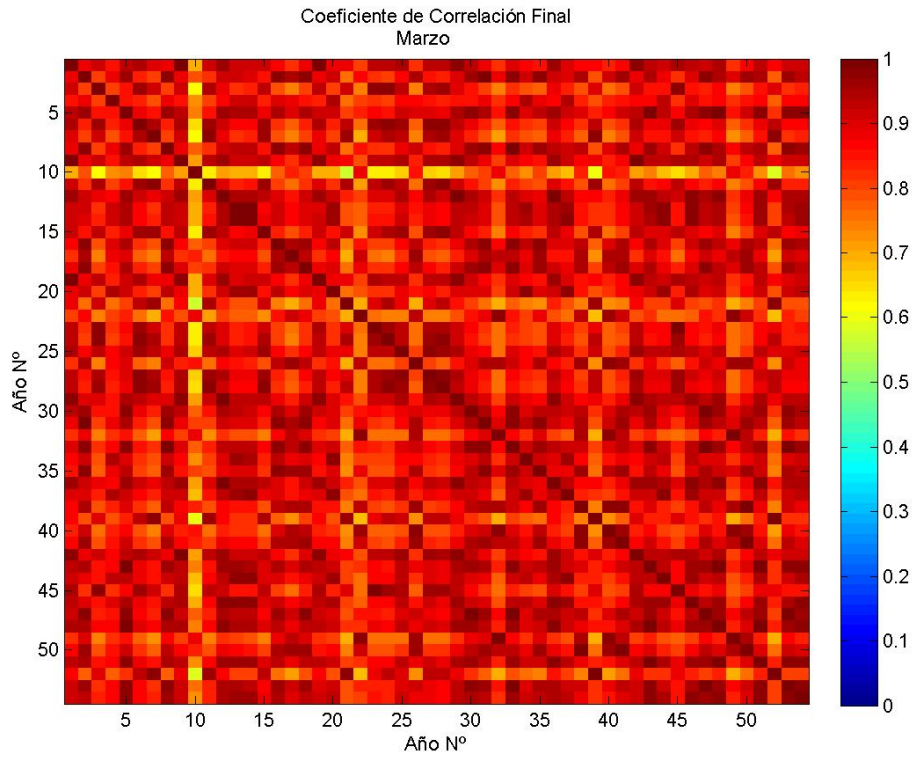


**Figura 2. Matriz de Correlaciones. Enero.**

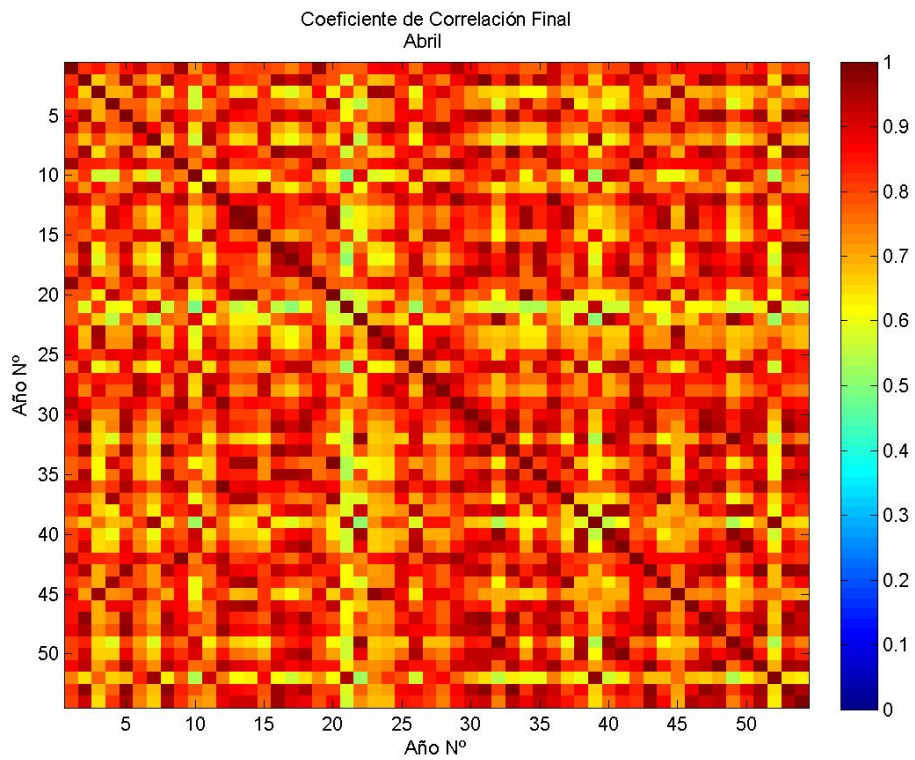


**Figura 3. Matriz de Correlaciones. Febrero.**

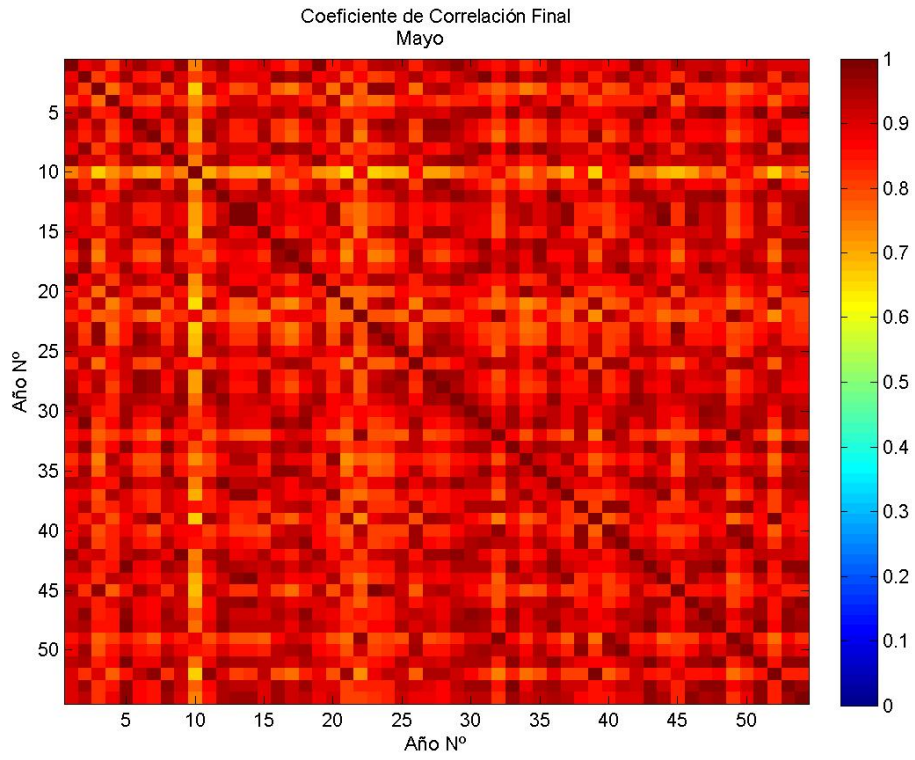




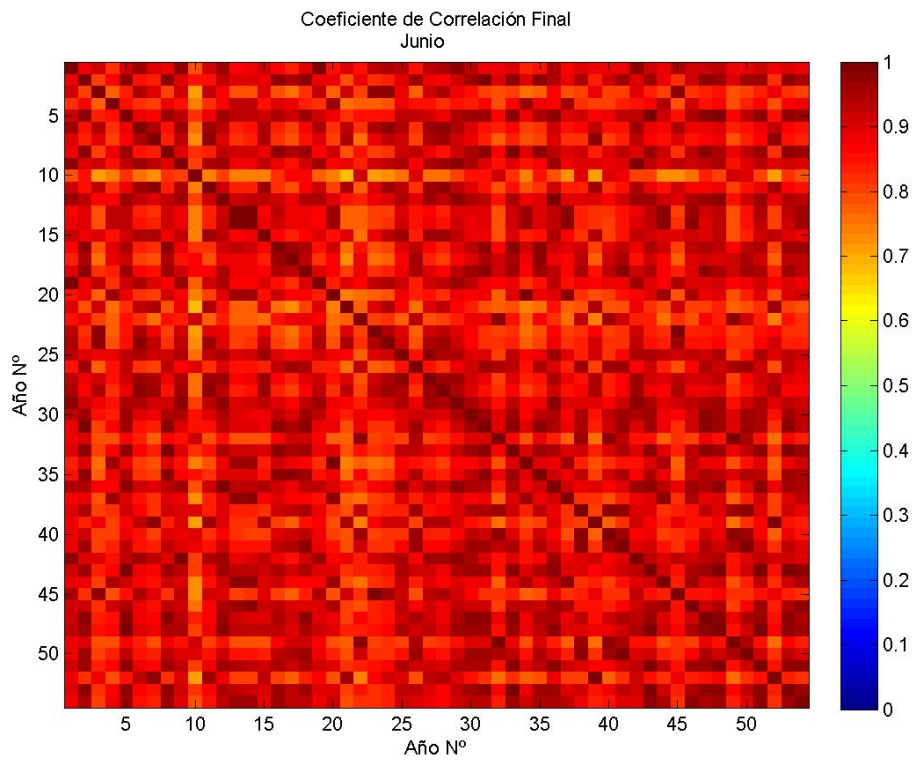
**Figura 4. Matriz de Correlaciones. Marzo.**



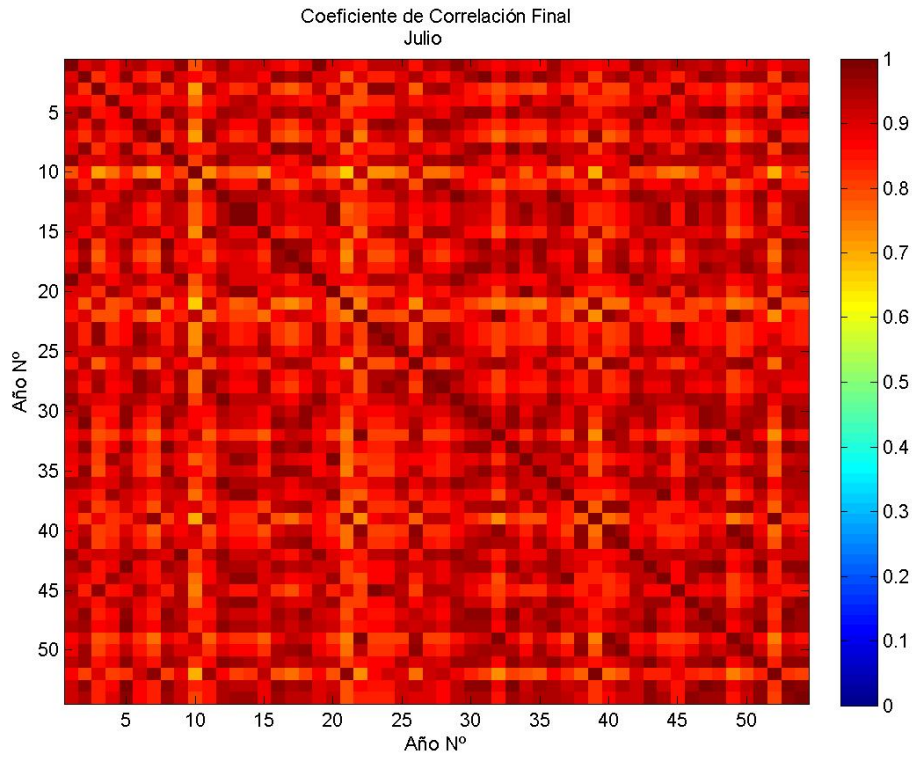
**Figura 5. Matriz de Correlaciones. Abril.**



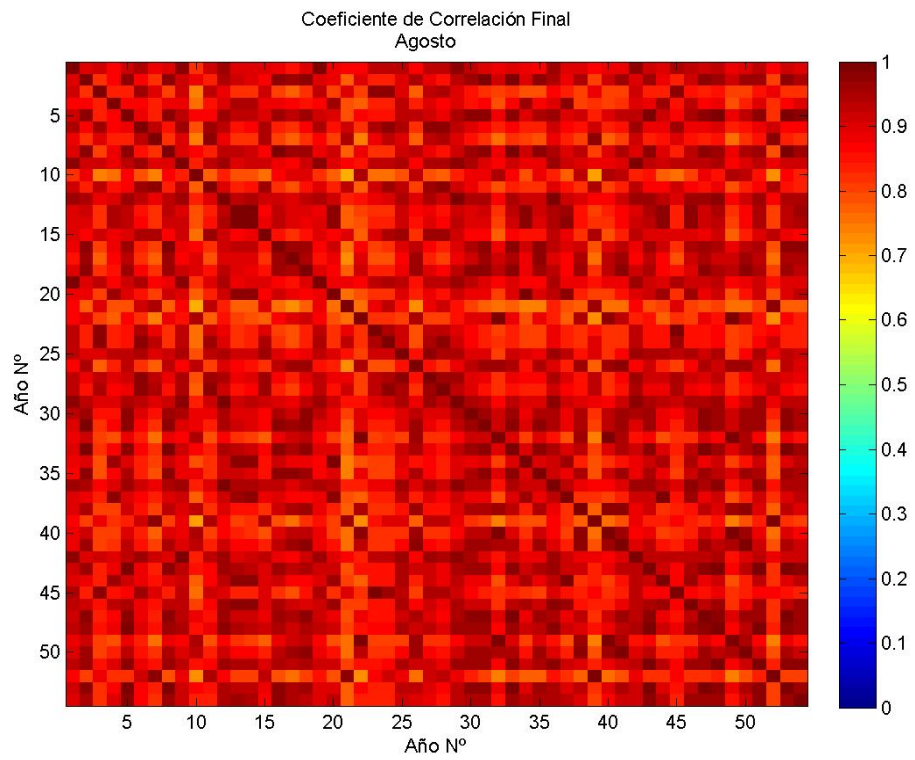
**Figura 6. Matriz de Correlaciones. Mayo.**



**Figura 7. Matriz de Correlaciones. Junio.**

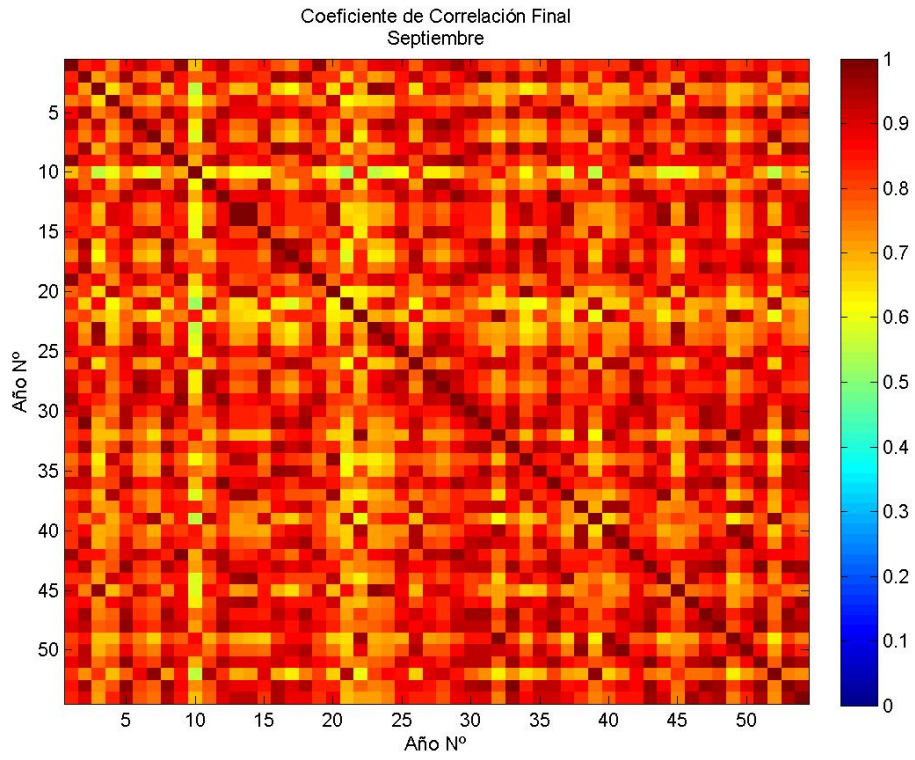


**Figura 8. Matriz de Correlaciones. Julio.**

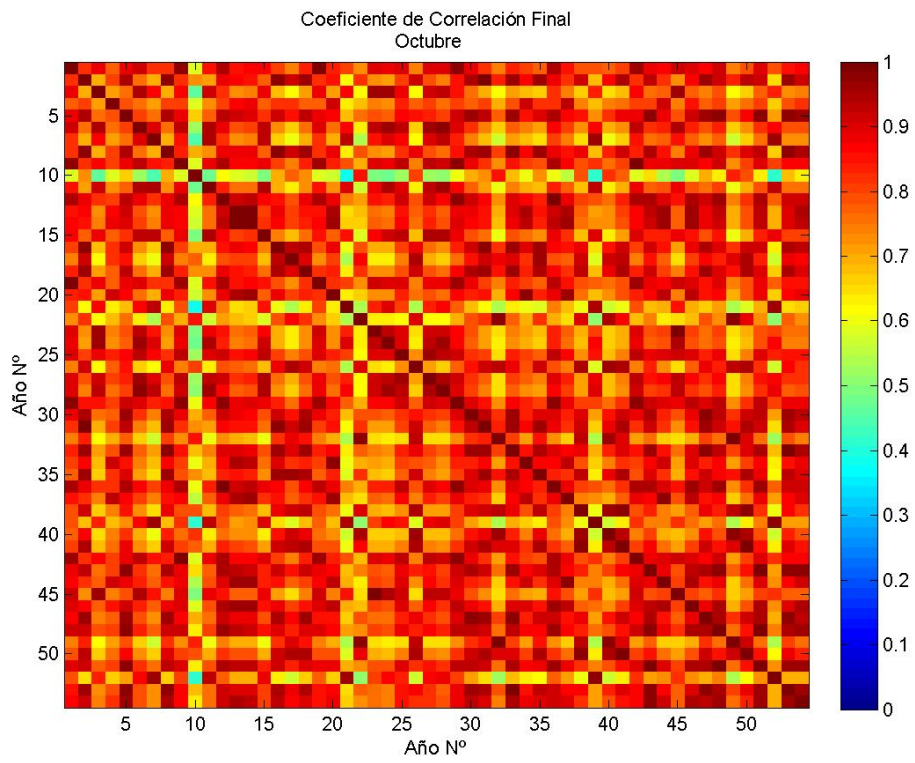


**Figura 9. Matriz de Correlaciones. Agosto.**

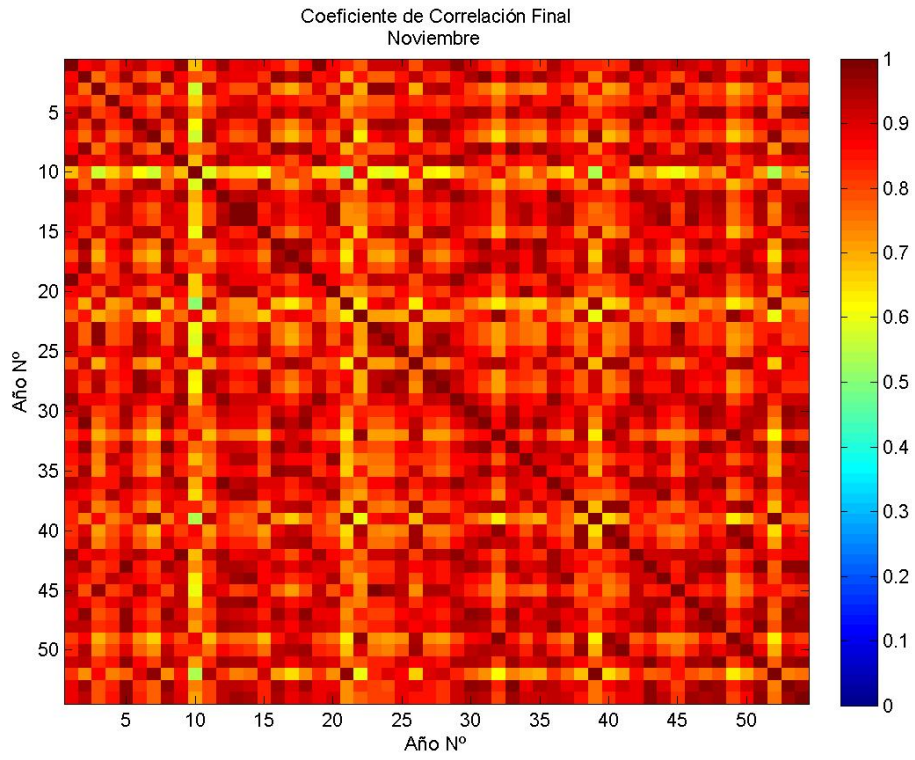




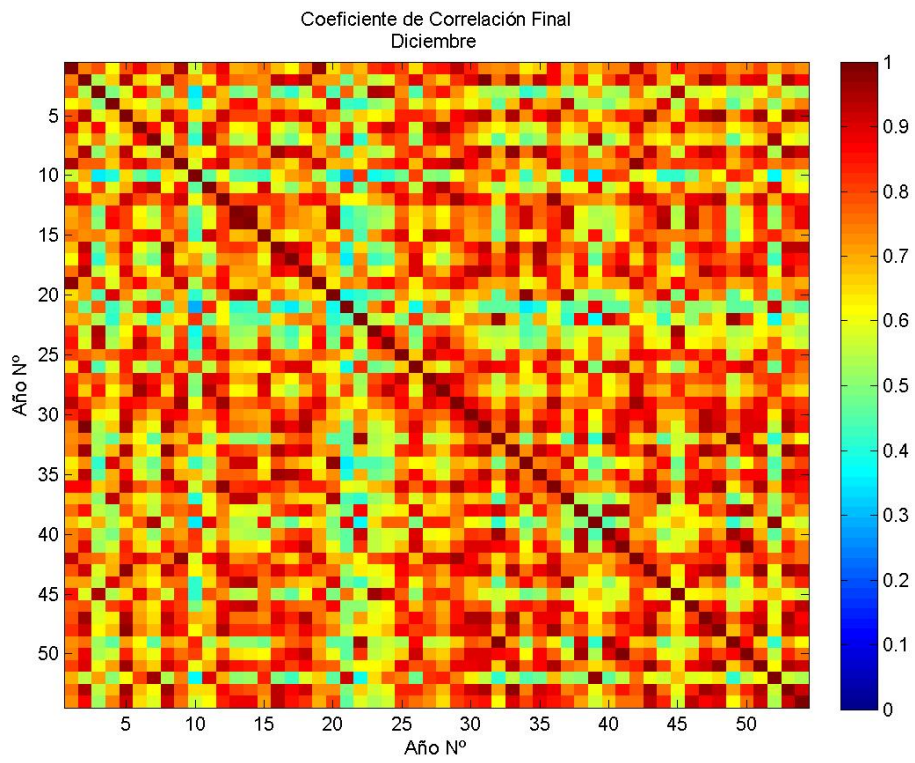
**Figura 10. Matriz de Correlaciones. Septiembre.**



**Figura 11. Matriz de Correlaciones. Octubre.**



**Figura 12. Matriz de Correlaciones. Noviembre.**



**Figura 13. Matriz de Correlaciones. Diciembre.**

## Anexo 5. Estadística de Precipitaciones Observadas.

**Tabla A. 6. Angostura en Valdivia de Paine.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1988	s.i.	s.i.	s.i.	s.i.	3	25	46.5	95	15	0	6	0
1989	0	0	0	20.5	41.5	25	168.5	168	24	6	1.5	0
1990	0	0	0	0	12.5	7.6	97	58	46	8.5	0	0
1991	0	0	0	21.5	148	234	148	13.5	76	7	0	47.5
1992	0	0	11.5	22.5	185.5	257.5	31.5	78	29	0	8	0
1993	0	0	0	82	98	142	63.5	43	9	3	8	0
1994	0	0	0	41	160.5	33.5	130.5	0	7	0	0	0
1995	0	1	0	30.5	0	114	128	77.5	11.5	2	0	0
1996	0	0	0	42.5	9	61.5	45.5	83	3	2	0	0
1997	0	0	0	10	162	24	76	137.8	92.2	48.8	1.6	0
1998	0	0	0	21.8	9.8	38	0	0	15.9	0	0	0
1999	0	0	0	0	0	0	15.6	123.4	103.8	2	2	0
2000	0	19	0	13.9	0	478.9	0	0	153.8	4.9	0	0
2001	0	0	0	10.5	73.4	9	292.3	0	0	0	0	0
2002	0	0	0	0	160.8	92	145	154.2	12.8	0	0	0
2003	0	0	0	0	89.2	84.3	52.9	13.5	8	0	0	0
2004	0	0	0	60.6	35.6	66.3	116.3	85.2	21.6	3	39.6	0
2005	0	0	11	8	1.8	0.6	0	109.9	22	11.1	9.4	0
2006	0	0	0	5.2	41.3	132.2	81.3	68.3	s.i.	s.i.	s.i.	s.i.

**Tabla A. 7. Antupirén.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1979	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	97.6	58.7	0	51	21
1980	0	18	0	101.5	51	102.4	122.7	20	88	0	0	0
1981	0	0	8	0	131.5	13	45.5	24.5	15	8	0	0
1982	0	0	0	0	147	395.8	137	87	83.5	57.5	0	0
1983	13.5	5.5	0	33.5	56.5	133	112	63	47.5	5	0	0
1984	0	0	4.5	7.5	63	54	257.5	30	48.5	22.5	11.5	0
1985	7.5	0	39	8	67	14.5	111.5	26.5	23	38	0	0
1986	0	0	0	30.5	134.5	175.5	1	70.5	17	18	24	0
1987	0	0	1.5	35.5	48.5	56	395	208.5	32.5	80	0	0
1988	0	0	7	0	8	12.6	45	89.5	35	0	20	4.1
1989	0	0	0	42.5	45.5	26	107	228	27.5	0	0	0
1990	0	0	20.5	9	17	5.5	84	84	40.5	18.5	0	0
1991	0	0	0	9.5	82.8	153	196.3	10.1	68.9	25.5	0	61.5
1992	0	0	14.5	76	143	124.1	42.5	18.5	34	0	9.5	0
1993	0	0	0	137.5	s.i.	49.2	5	32.5	57.1	33.5	1.3	s.i.
1994	0	0	0	24.5	40.2	54.1	134.5	16.3	33.7	10	2	10.4
1995	0	2	0	19.6	9.4	89.9	85.8	45.5	37.2	1.5	0	0
1996	0	0	0	43.5	9	43	24	47	6.5	6	0	1.6
1997	0	0	20	20	114.6	301.6	83.4	111	62	83.1	15	66
1998	0	0	0	48.5	33	37.4	0	4.5	14.5	0	0	0
1999	0	0	13.6	17.5	5.7	49.5	49.7	125.5	146.2	26.5	0	4.5
2000	0	41.5	0	29.2	32.9	384.7	55	3	122.5	15	1.5	0
2001	0	0	16.5	25	60	8	213.7	66.7	62.8	16.5	0	0
2002	0	0	18.2	22.6	157.1	235.1	99.5	114.7	31.6	5	2.5	0
2003	17	0	0	0	90	42.1	82.3	4.3	23.5	0	17.6	0
2004	4	3	19	49.5	12.6	59.5	87	75	42.5	8.5	102.3	0
2005	0	0	27.5	11.7	57.5	187.5	48.1	218.2	64.5	69	15	0
2006	0	0	0	5.5	8	70.7	173.3	67.5	s.i.	s.i.	s.i.	s.i.

**Tabla A. 8. Barrera Loncha.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1984	s.i.	s.i.	s.i.	s.i.	194.5	48.8	297.5	119	111.5	28	0	0
1985	0	0	13.5	7.5	71	22.5	130	0	15.3	24	0	0
1986	0	0	8	s.i.	203.5	220.5	3.8	87.8	2.7	4.7	48.7	0
1987	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	172	41.7	31.5	0	0
1988	0	0	s.i.	0	3.2	54.7	6	71.9	10.7	0	9	0
1989	0	0	0	2	27.5	30.8	149.7	119.9	17.5	6.3	2.4	0
1990	0	0	24.6	6.6	12.9	0	43.1	53.2	40	26	4.5	0
1991	0	0	0	45.5	111.6	172.3	119.3	16.9	36.5	25.2	0	64
1992	0	0	15	36.5	258.5	354.2	4	81	30	0	3	0
1993	0	0	0	53.4	117.9	109.4	99.3	40.3	0	0	8	2.2
1994	0	0	0	70.2	71.7	96.7	86.8	2.2	5.2	9.8	0	9.5
1995	0	0	0	61.4	0	154.1	121.9	61.5	6.1	s.i.	0	0
1996	0	0	0	24.8	16.5	83.3	7.5	94.4	1.4	2.3	0	2.6
1997	0	0	1.4	15.6	109.3	404.3	72.2	130.8	s.i.	85.3	22.6	0
1998	0	0	0	18.1	21.1	9.6	0	0	27	0	0	0
1999	0	0	0	0	24.8	71.1	39.9	151.8	163.6	13.5	0	0
2000	0	29.3	0	0.9	13.6	454.4	31.5	1.4	198	9	0	0
2001	0	0	0	36.5	163.5	7.8	253.7	183.3	14.8	1.6	0	0
2002	0	0	30.7	0.8	245.6	164.3	124.8	179.1	32.5	10	0	3
2003	0	0	0	0	203.2	108.8	72.6	19	47.2	7.7	15.1	0
2004	0	0	31.8	58	25.6	80.9	136.5	86.4	45.6	8.3	44.5	0
2005	0	0	7.9	3.3	161.2	215.7	66.7	175.5	13.5	8.7	21.6	0
2006	0	0	0	16	51	132.9	222.2	100.5	s.i.	s.i.	s.i.	s.i.

**Tabla A. 9. Caleu.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1957	s.i.	s.i.	s.i.	s.i.	418	10	109.9	40	s.i.	s.i.	0	0
1958	0	0	0	0	95	118	51	s.i.	s.i.	s.i.	s.i.	s.i.
1959	s.i.	s.i.	15	30	s.i.	168.9	138	s.i.	s.i.	0	0	0
1960	0	0	0	0	55	233	63	67	27	0	0	0
1961	0	0	0	0	s.i.	329.9	s.i.	s.i.	s.i.	0	0	0
1962	0	0	0	0	s.i.	s.i.	s.i.	s.i.	15.5	35	1	0
1963	2	0	12	0	93	74	298.5	267.5	170	0	0	0
1964	0	0	0	7	0	102	20.5	143	0	0	0	0
1965	0	0	0	44	58	31.5	303	384	0.5	21.1	7	9
1966	0	0	1	76.4	14	319	320.1	32.5	0	0	34.4	24
1967	0	0	0	0	57	76	113	22	57	0	0	0
1968	0	0	0	10.5	0	25	13.3	39	45	0	0	0
1969	0	0	0	66	40	151.5	22	56	1.5	4.5	0	0
1970	0	0	0	0	87	34.5	238.9	0	41	28	0	0
1971	s.i.	s.i.	0	25	16	177	50	50	4	18	s.i.	s.i.
1972	0	0	0	0	193	270	0	31	0	s.i.	s.i.	0
1973	0	0	0	0	45	64	150	s.i.	s.i.	s.i.	s.i.	s.i.
1974	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	49	s.i.
1975	0	0	0	39	53	14	104	52	0	0	0	0
1976	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1977	0	0	13	0	38	158	289	69.9	0	55	16	0
1978	0	0	0	0	14	100.5	535.3	11	52	0	139	0
1979	0	0	0	25.5	31	2.5	270.5	72	56	0	46.5	7
1980	0	0	0	198	63	94	174	36	105	0	0	0
1981	0	0	6	6	325	32	38.5	7	22	13	0	0
1982	0	0	22	0	188	524	293	129	62	22.5	0	0
1983	7	0	0	16	109	146	140	116	19	0	s.i.	s.i.
1984	0	0	1	1	104.1	43	708	112	75	18	6	0
1985	0	0	16	0	70	24	119.6	2	14	4	0	0
1986	0	0	0	49	160	165	1	184	1	1	51	0
1987	0	0	0	4	133	50	965	365.1	26	83	0	0
1988	0	0	0	0	2.5	30	81.5	147.5	31	0	22.5	1.5
1989	0	0	0	23.5	30.5	41	258	160.5	5	0	0	0
1990	0	0	27	0	2	1	71	87.2	46.5	6.5	0	0
1991	0	0	0	4	s.i.	372.1	78.2	8.5	101.5	12.6	0	15.5
1992	0	0	68	49	260	219.5	13	132	8	0	s.i.	0
1993	0	0	0	129.5	138	153.5	62.5	45	0	0	0	0
1994	0	0	0	5.5	182	69	204.5	19.5	36.5	2	0	4
1995	0	0	0	18	3	138.5	146.5	58	21.5	0	0	0

1996	0	0	0	36	31	58	59.8	131	4.5	8	0	3.5
1997	0	0	0	0	219.5	696.5	122	197	97	176.5	9.5	0
1998	0	0	0	60.9	0	66	1	0.5	4.6	0	0	0
1999	2	0	8	16.5	18.5	65	38	94.5	197	6.5	0	0
2000	0	8.5	0	8	30.5	511	10	0	138	0.5	0	0
2001	0	0	1	5.5	36.5	0	248	55.5	32	0	0	0
2002	0	0	0	0.2	228.4	255.5	76	87.9	16	0	0	0
2003	3.5	0	0	0	65	52.2	50	5	0	0	3.5	0
2004	0	0	34.5	71.3	31	72	145	114	54.9	0	22	0
2005	0	0	22.6	1	73.5	189	84.6	304	0	19	35	0
2006	0	0	0	0	7	120	178	87	s.i.	s.i.	s.i.	s.i.

**Tabla A. 10. Campus San Joaquín U.C.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1977	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	35.1	0
1978	0	0	0	0	24.4	57.8	249.1	17.1	32.3	0.9	83.5	0
1979	0	0	0	9.4	16.9	1.4	95.4	45.1	42.9	0	28.8	17
1980	0	0	0	67.3	59.4	82.8	78.2	12	73.3	0	6.3	0
1981	0	1.5	7.5	2.8	185.4	17.2	42.5	10.8	10.5	15.3	1	0
1982	0	0	20	0.5	119.5	334.7	122.7	79	53	26	2	0
1983	11.9	1.2	0	49.5	9.2	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.

**Tabla A. 11. Carmen de las Rosas.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1930	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	30.8	7
1931	21.6	0.2	0	20.9	13.7	124	216	65	56	6	0	0
1932	0	4	7	2	38	139	158	61.7	17	3	0	31
1933	52	3.5	0	0	61	136	70.6	83.4	14	21	0	0
1934	0	0	1	0	183	157.3	18.5	1	13.5	38.5	15	0
1935	0	0	0	7	60	117	75	43	52	22	0	0
1936	0	0	0	33	204	67	129	85	18	0	0	9
1937	0	0	0	0	78	149	132	84	28	19	11	0
1938	0	12	44	0	89	56	62	0	0	26	7	0
1939	0	0	0	0	73	194	23	86	10	39	0	26
1940	0	20	0	18	32	154	191	14	18	28	9	0
1941	0	8	7	70	150	171	277	257	0	6	50	0
1942	0	0	0	0	35	81	152	82	0	22	38	0
1943	0	0	7	9	61	74	64	83	27	0	0	0
1944	0	16	0	19	73	153	30	228	12	23	0	0
1945	0	96	18	16	0	0	36	84	23	14	0	0
1946	30	0	0	6	37	74	55	26	10	25	0	0
1947	0	0	0	12	20	133	46	48	16	23	0	0
1948	0	0	0	40	130	52	246	17	17	23	0	0
1949	0	0	22	0	238	67	25	40	0	0	0	9
1950	0	0	6	114	115	43	3	62	47	6	36	0
1951	0	0	0	20	72	151	230	0	28	0	0	0
1952	0	0	0	0	120	89	95	22	21	7	0	0
1953	12	0	0	43	218.5	72.5	123	275	182	12	0	0
1954	0	2	0	65	83	207	88	22	15	6	0	0
1955	0	0	0	13	54	121	32	57	9	18	0	5
1956	14	0	93	48	62	29	182	83	43	0	0	0
1957	0	0	0	8	258	36	128	35	13	0	0	28
1958	0	0	0	2	119	220	38	110	18	7	7	0
1959	7	0	18	97	36	204	117	85	22	17	0	0
1960	0	0	0	0	52	109.8	93	61	11	3	0	0
1961	0	0	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1962	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	21.5	18.5	0	0
1963	0	0	9	0	44	59.5	205.2	190.3	38	2.5	16	0
1964	0	0	0	14	0	70.8	23.1	79.5	0	0	8.5	21
1965	0	0	0	36.3	85.9	31.5	181.5	270.5	0	25	8	3.5
1966	0	0	0	64	13.5	284.5	97	59	11	0	7.5	23
1967	0	0	0	3.5	74.9	38.5	122.5	17	27.5	0	7	0
1968	0	0	0	8	0	16	9	21	22.4	0	0	0
1969	0	0	0	50	21	117	31	61	0	0	0	0
1970	0	0	0	3	84	71.4	176.4	16.2	17.5	16.5	0	0
1971	0	0	0	10	0	172	61.5	43.5	21	42.4	0	0
1972	0	0	13	0	154.9	210.3	68	160.5	85	0	0	0

1973	0	0	0	0	95.8	59.5	128.8	0	0	74.9	0	0
1974	0	0	0	0	127.5	257.9	0	0	40	0	36	0
1975	0	0	0	37	28.6	38.1	179.8	14	s.i.	s.i.	s.i.	s.i.
1976	0	0	0	0	37.5	74.6	8	24.5	42.5	87.7	15	0
1977	0	0	0	15	27.5	147	305.2	58	0	34	23.5	0
1978	0	0	0	0	43	120.4	323	10	43	0	44.3	0
1979	0	0	0	15	29.5	0	195.8	32.6	36.5	0	22.8	6
1980	0	6	0	101.1	151.5	88.8	159.4	5	78	0	0	0
1981	0	0	4	5	246.5	14	29	24	28.8	0	0	0
1982	0	0	16.5	0	141.2	412.2	143.9	79.4	41	25	0	0
1983	2	0	0	0	42	134.4	86.5	82	23	0	0	0
1984	0	0	0	2	180.7	11.8	391.2	76.2	86.7	20	0	0
1985	0	0	11	5	55.5	17.3	98	0	14.5	15.9	0	0
1986	0	0	2	31.5	172.1	142.6	5.4	86.1	1.1	0.9	60	0
1987	0	0	0	3.9	59.9	35.5	421.3	214.8	28.2	43	0	0
1988	0	0	9	0	2	28.9	41.5	91	5.5	0	16.5	0
1989	0	0	s.i.	8	35	22	125.3	127.6	7.1	s.i.	s.i.	s.i.
1990	0	0	10.3	0	6.6	s.i.	72.5	42.5	35	s.i.	0	s.i.
1991	0	s.i.	0	25.8	119.5	182.2	90	11.6	63.2	s.i.	0	s.i.
1992	0	0	19.5	26.3	234	250.7	9.5	114.7	s.i.	s.i.	s.i.	0
1993	0	0	0	67.7	77.3	91.2	45.2	36	3	7	7.5	0
1994	0	0	0	48	92.8	78.4	94.7	0	19	0	0	5.5
1995	0	0	0	36.5	0	131	114	46	0	0	0	0
1996	0	0	0	25	0	45	55.2	76	0	0	0	0
1997	0	0	0	20.5	116.3	334.5	37	118	50	81.9	0	0
1998	0	0	0	8.5	18	26.5	0	0	6.5	0	0	0
1999	0	0	15.2	2.7	28.2	47.5	16	100.5	106	5	0	0
2000	0	25	0	3.6	15	412.5	8.5	1.3	160	7	0	0
2001	0	0	0	20.5	76	20	236.5	115	20	0	0	0
2002	0	0	0	0	189	198.5	113.5	127.5	8	5	0	0
2003	0	0	0	0	107.5	104	43.5	10	41	6	21	0
2004	0	0	30	48.5	34	48	92.5	95	20	9	50	0
2005	0	0	13.9	4	109	149	54.8	150	20	13	25.5	0
2006	0	0	0	13	45.5	108	192.5	60	s.i.	s.i.	s.i.	s.i.

**Tabla A. 12. Cerrillos de Leyda.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1932	s.i.	s.i.	5.8	4	51.1	165	152.8	129.4	11.5	0	0	0
1933	65	5	s.i.	s.i.	72.9	150.7	55	48.7	0	19.6	0	0
1934	0	0	0	0	202.7	228.7	10.5	3.8	0	0	0	0
1935	0	0	0	0	s.i.	117	50	31	20	23	0	0
1936	0	0	0	23	152	55	90	81	27	0	0	0
1937	0	0	0	0	59	165	102	104	20	23	17	0
1938	0	0	35	0	52	44	51	4	4	21	8	0
1939	0	0	0	0	38	164	4	106	14	49	0	12
1940	0	25	0	21	28	132	234	6	21	50	0	0
1941	0	7	51	64	128	142	217	171	0	5	20	0
1942	0	0	0	0	26	79	94	75	7	17	27	0
1943	0	0	5	7	78	68	72	79	23	7	2	0
1944	0	0	0	13	34	191	26	180	8	27	0	0
1945	0	49	11	12	0	0	61	35	23	12	2	0
1946	18	0	0	8	36	62	32	18	6	13	0	0
1947	0	0	2	10	20	75	77	27	17	40	0	0
1948	0	0	0	36	78	28	178	20	0	5	0	0
1949	0	0	16	0	176	58	34	29	0	0	0	10
1950	0	0	0	84	86	55	0	68	37	0	16	0
1951	0	0	0	14	52	133	193	0	21	0	0	0
1952	0	0	2	0	77	159	101	10	18	15	0	0
1953	4	0	0	12	127	46	61	199	113	6	0	2
1954	0	0	0	44	46	98	69	31	8	6	0	0
1955	0	0	0	17	101	52	29	34	12	10	4	10
1956	18	0	62	23	36	20	132	107	10	0	0	0
1957	0	0	0	4	145	14	74	31	10	1	0	28
1958	0	0	0	0	97	77	16	59	41	0	0	0
1959	8	0	10	89	25	98	72	37	7	13	0	0
1960	0	0	0	0	29	110	54	28	2	7	0	0
1961	20	0	7	0	9	93	59	48	60	0	0	0

1962	0	0	5	0	2	80	6	52	7	15	0	0
1963	0	0	14	0	55.5	46.5	172.5	123	80.5	3	19	0
1964	1	0	0	12.5	0	50.5	34.2	89.5	3	0	10	9
1965	0	0	0	28	58	18	272.3	246.4	5	38	10	6
1966	0	0	0	55.5	27	171.5	59	23	0	0	0	16
1967	0	0	0	6	58	26	105	20	22	0	10	0
1968	0	0	0	5	0	14	14	36	37	0	2	1
1969	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	1
1970	0.5	0	1	21	56.5	63	170	11	27.5	30	0	s.i.
1971	s.i.	s.i.	0	32.5	8.5	156	30	46.5	11	25.6	0	1.2
1972	0	0	17	0	95.9	206.2	74	180	89	0	0	0
1973	0	0	0	0	69	82.7	102.9	6	14	66.3	0	0
1974	0	0	0	0	181.4	246.7	24	14	29.6	0	0	0
1975	0	0	0	33	38.8	38.9	66	8	0	0	29	0
1976	0	0	0	0	25	s.i.	19	s.i.	15	78	s.i.	s.i.
1977	0	0	0	0	s.i.	170	264	81	0	52	16.5	0
1978	0	0	0	0	34	108.5	269.5	25.5	77	0	65	1
1979	0	0	1	30	28.8	0	212	40	57	0	31	14.5
1980	0	1	2.5	148	210.5	127.5	160.5	15	55	0	2	0
1981	0	0	4	12.5	252	53.5	33.5	19	22.5	7	0	0
1982	0	0	33.5	2.5	194	325	197	85.5	61.5	34	0	0
1983	3.5	0	0	8.5	54.5	178	93.5	93.5	16.5	1	0	0
1984	0	0	0	8	167.5	41	369	105	85.5	21.5	2	0
1985	1	0	8	4	49.5	32.5	118.5	0	26	18.3	2	0
1986	0	0	1.2	98.6	221.5	156.2	7.9	80.5	5.3	1.2	47.5	0
1987	0	0	1	6	50.1	39.6	390.1	177.5	48.2	21	0	0
1988	0	0	14.7	3.4	1.5	31	71.1	91.4	16.1	0	11.3	1
1989	0	0	0	0	24.4	28.1	119.2	89.4	5.3	7	0	0
1990	0	0	18.5	2	9	2.1	65.1	31	45.4	24.3	0	0
1991	0	0	0	34.8	108	193.1	81	16.5	58.1	24	0	28
1992	0	0	16.2	22	258.2	300.3	12.4	127.7	33.5	0	4.5	0
1993	0	0	0.1	89.2	104.5	85	83.1	25.4	0	6.5	6	1.3
1994	0	0	0	46	62.5	63.3	63.1	8.6	27.6	11.9	0	4.2
1995	0	0	0	48.6	0	95.1	126.6	67.5	8.6	11.8	1	0
1996	0	0	0	22.5	17.5	46.9	75.7	94.9	0	2.8	1	3
1997	0	0	0	9.2	133.5	328.4	55.8	154.5	84.6	75.7	23	0
1998	0	0	0	18	31.9	6.3	0	0	12	0	0	0
1999	0	1.2	26	0	29.7	50.1	33	75.4	141.6	9.7	0.2	0
2000	0	19.6	0	3.2	17.1	382.4	15.2	4.5	68.7	5.1	0	0
2001	0	0	0	26.7	105	10	295.3	131.4	20.6	0	0	0
2002	0	0	22.9	8.1	204.3	163.4	137.4	173.3	21.4	7.3	0	0
2003	2.1	0	0	0	101.3	93.1	58.6	15.5	31.5	6.5	24.6	0
2004	0	0	11.5	50.2	26.2	49.3	136.6	81.1	30.6	13.7	42.9	0
2005	0	0	22.5	5.2	141.4	153.5	55	162.6	28.1	8.4	14	0
2006	0	0	0	6.4	35.7	124	232.4	79	s.i.	s.i.	s.i.	s.i.

Tabla A. 13. Cerro Calán.

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1975	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	17	0
1976	0	0	16	6	27.5	62.8	1.4	30.3	27.3	38.3	14.8	0
1977	0	0	0	13	35.8	236.1	143.3	45.3	0	s.i.	0	0
1978	0	0	0	0.3	19	49	239.5	35.7	49.9	4.5	77.7	5.5
1979	0	0	0.4	15.4	21.6	3.5	77	103	68.5	0	43	33
1980	0	41	0	74.5	37	88.4	82.5	30.7	75.5	7	9.5	0
1981	0	1.7	6.5	3	167.1	12.6	48.5	35.5	22.5	28.5	0	0
1982	0	0	17.5	1.6	114	336.5	132.5	99	82.5	45.5	6	0
1983	13.5	2	0	29.5	43	118.5	100.5	59	48.5	4.4	1.5	0
1984	0	0	2.5	11	58	50.1	232.5	53.9	62.5	31.5	15.5	0
1985	4.5	0	26.5	5.1	61	10.5	105.5	23.5	20	37	0	0
1986	0	0	0	23	136.4	167.5	1.5	55.5	16	14.5	24.5	0
1987	0	0	2.5	14.5	63.1	46	445	206.5	27	79	0	0
1988	0	0	6.5	0	4.5	4.5	48.5	92	26.5	1	8.5	4.5
1989	0	0	0	51.5	42.5	26.5	219.7	164.5	29.9	0	2.5	0
1990	0	0	12.3	0	12	0	80.8	92.8	36	20	1.2	0
1991	0	0	0	8.5	86.7	141.7	136.6	6.5	65.7	26.3	0	40
1992	0	0	13.8	55.9	149	165	33	66.9	27.7	1.3	10.1	0
1993	0	0	0	121.5	128	35.6	52.2	32.3	27.7	16.1	4.7	8.3

1994	0	0	0	21.8	46	39.1	115.2	14.5	33.6	13	3	3.2
1995	0.3	1	0	20.1	11.5	80.1	65	29	34.8	0.5	1.9	0
1996	1.3	0	0	45.6	8.9	43.3	22.5	53.5	6.5	7.4	0	6.1
1997	0	0	27.5	1	119.1	292.8	75.5	111.8	82.1	74.9	16.1	46.6
1998	0	2	0.7	56.6	37.9	32.5	0	3.5	17.3	0	0	0
1999	1.3	1.5	14.6	17.9	2.4	46.2	36.3	127.3	122.4	30.4	0	0
2000	0	29.4	0	29.5	27	360.4	42.8	1.3	103.3	16.9	1.3	0
2001	0	0	21	27.3	54.5	6.7	225.8	75.7	65.5	11.3	1.5	0
2002	0	0	17	29.1	162.3	279	115.8	112	29.6	5.3	0.8	0.8
2003	14.8	0	0.5	0	65.5	50.5	71.6	5.3	18	0	13.3	0
2004	3.8	0.6	14.4	34.4	15.7	53.2	95.4	64.7	56.6	9.3	77.3	0
2005	5.5	0	23	6.9	79	169.2	42	230.5	38.4	52.1	11.3	0
2006	0	0	0	1.5	4.1	62.7	188.9	67.2	s.i.	s.i.	s.i.	s.i.

**Tabla A. 14. El Vergel.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1988	s.i.	s.i.	s.i.	s.i.	3.3	15.4	37.4	92.3	13.7	0	5.3	3.3
1989	0	0	0	25.4	15.3	24.2	141.6	144	13.6	7.6	0	0
1990	0	0	10.6	0	9.2	5.5	80.6	49.9	36.5	6.9	0	0
1991	0	0	0	28.6	119.6	165.5	137.8	15.1	60.2	11.5	0	27.5
1992	0	0.4	s.i.	21.7	212.7	212	20.4	60.6	29.1	0	9	0
1993	0	0	0	85.2	87.9	90.2	51.8	34.4	10.1	2.9	6	0.1
1994	0	0	0	34	105.2	72	s.i.	12.2	11.5	4.6	0	5.3
1995	0	3.5	0	24.1	2	91.4	106.5	54.5	9.3	4.4	0.5	0
1996	0.1	0	0	9.4	s.i.	40.5	37.4	59.7	1.7	6.2	0	1.5
1997	0	0	0.8	5.8	150.6	421.8	82.2	121.2	72.3	57.4	4	6.5
1998	0	0.2	0.1	18	10.3	38.6	5.6	1.3	20.9	0	0	0
1999	0	0	19	6.2	13.5	80.7	19.4	102.6	134.5	10.7	0	0
2000	0	13.5	0	17.2	11.2	444.7	16.9	2.6	158.4	5.3	2	0
2001	0	0	0.2	9.5	73	10	290.4	75.3	10	2	0	0
2002	0	0.5	0.1	0.1	178.5	271.7	116.2	121.7	10.7	4.2	0	2.5
2003	3.8	0	0	0	77.5	103.6	57.7	14.2	13.5	0	20.8	0
2004	0	0	13.1	71.7	29.2	67.4	101.3	74.1	12.8	1.2	50.4	0
2005	0	0	15.5	5	109.8	189.2	40.9	152	16.3	11.1	20.5	0
2006	0	0	0	7.5	32.6	92.6	207.5	44.9	s.i.	s.i.	s.i.	s.i.

**Tabla A. 15. El Yeso Embalse.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1962	s.i.	s.i.	s.i.	11.7	42.8	134.6	23	21.9	20.7	64.7	2.4	25.5
1963	s.i.	41.7	12.6	9	34.7	103.8	108.5	121.2	173.6	53.9	99.8	1.2
1964	0	2.2	21.7	0	0	95.3	47.3	48.6	4.4	9.2	10.4	34.6
1965	29.8	0	0	87.4	100.3	16.1	193.7	307.9	27.2	27.1	51	87
1966	0	0	0	67.5	21	94.6	60.7	58.2	0	5	12.7	9.5
1967	8	7	0	4.7	36.7	73	35	29	46	29	0	0
1968	6	0	0	18.6	3.2	26.9	0	14.2	22.2	6.7	4.7	8
1969	0	0	1.6	62.5	30.7	188.7	81.2	87.7	41.7	27.8	19.2	0
1970	0	3	0	0	98.1	32	106.5	13	19.1	17	0	0
1971	5	0	4	6.8	26	97.7	48.1	26.8	1.5	18	5	0
1972	0	0	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	0
1973	0	4.2	1	24.3	69.5	45	166	0	15	8	0	8
1974	0	1.5	0	0	117	54.5	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1975	0	1	10	41	58	2	148	59	5.5	10	10.5	0
1976	1.5	38.5	14	42.5	39.5	157	7.5	13	21.5	44.5	16.5	9.5
1977	1.5	0	3	15	67	177	s.i.	70.6	9.5	16.5	71.5	4
1978	7	0	0	0	51	83.5	426.5	50	40.5	63	66	s.i.
1979	0	5	7.5	12	65.5	1.5	47.5	139	16.5	0	66	35.5
1980	0	38	0	201	201.5	90	164.5	18	60.5	15	8	0
1981	0	35	20	11	196.5	21.5	26	35.5	11.5	9	4.5	0
1982	3.5	0	5.5	0	90	602	431.5	215.5	89.4	20.5	6.5	0
1983	47	9.5	0	38.5	32	105.5	105	48.5	14.5	3.5	0	0
1984	0	0	9.5	3	79	61.5	322.5	63.5	51.5	37	21.5	5.5
1985	9.5	0	37	5.5	64	17.5	97.5	1	24	95.5	0	0
1986	0	15.5	0	124.5	164.5	386.5	3	140.5	6	21.2	35.5	2
1987	0	18	23	7	71.5	97	645.5	342	29	38.5	0	0
1988	0	6.5	3	1.5	62	26	55	114.5	17	3.5	1.5	9
1989	0	0	0	30.5	42	12	75.5	242.5	54.5	3.5	1.5	0
1990	0	0	31.5	25	28	24	43.5	73	89	11	0	0



1991	0	0	0	81.5	311.5	139.5	244	5.5	72.5	9.5	10.5	53
1992	1.5	0.5	5.5	72.1	119	172.5	67	28.5	33	14.5	30.9	0
1993	21	37.5	0	132	217.7	169.5	59.6	14	21.5	1	15	0
1994	0	0	3.9	60	44	79.5	257.5	16.5	44.7	11.7	7.1	0
1995	25.1	3.5	0	59.2	32	155.5	31.5	43.7	35.5	4.5	7	0
1996	11	0	0	35.7	17	37	27.9	18.5	1.5	5.7	1.5	3
1997	0	0	20	27.3	108	460.7	55.7	212	231.5	49.5	6.1	30.6
1998	0	14	27.3	103.9	9.2	28	0	3.5	47.5	0	0	0
1999	0	0	10.8	26.2	50	67.1	10.5	84	173.2	22	27.5	2
2000	0	33.5	0	61	34	816.2	61	6	107.5	2.5	33	0
2001	0	0	37	50.5	72	60	406.3	189.2	17.5	17	0	4
2002	0	3.5	11	45	195	367	206	308	47.5	14	1.2	8
2003	57.5	0	5.5	0	104	135	106.8	9	65	0	62	1
2004	3.5	10.5	9.5	27.5	7.5	86.5	54	60	41.3	34.6	138.5	0.5
2005	10	0	43.2	25.7	142.2	461.9	11	413.5	95.5	21	3.5	2
2006	7.3	0.5	2.5	6.5	16	119	350	57.5	s.i.	s.i.	s.i.	s.i.

**Tabla A. 16. Estero Puangue en Ruta 78.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1989	s.i.	s.i.	s.i.	1.5	26	20.5	120.5	118	7	5	0	0
1990	0	0	4.5	5.5	4	6	49	24.5	30.5	16.5	0	0
1991	0	0	0	0	88	59	147.5	10.5	55.5	20	0	26.5
1992	0	0	10.5	20.5	217.5	223.5	8.5	95	23	0	2	0
1993	0	0	0	83.1	46.5	48.5	63	22	0	4	3	3
1994	0	0	0	38	71	68	83	0	13.5	6	0	2
1995	0	0	0	32	0	72	110	62.5	4	5.5	1	0
1996	0	0	0	16.5	7	46	34.5	34	1	4	0	0
1997	0	0	0	8	101.1	246	30	105	57	41	8.8	0
1998	0	0	0	6.6	16.8	5.6	0	0	5	0	0	0
1999	0	0	20	0	1.8	52.2	21.4	60.3	111.3	0	1.1	0
2000	0	0	0	0	0	44.1	8.8	0	138	0	0	0
2001	0	0	0	16	124	5	48	0	0	0	0	0
2002	0	0	0	0	172	77	82	130	8.2	2.2	0	0
2003	0	0	0	0	0	31.5	7.4	11	0	0	11	0
2004	0	0	0	44.1	23.5	43.8	72.6	72.2	13.5	4.4	31.7	0
2005	0	0	20.6	0.7	124.2	128.4	28.6	90.8	15.4	3.3	7.6	0
2006	0	0	0	9.1	62.3	97.9	145.5	61.7	s.i.	s.i.	s.i.	s.i.

**Tabla A. 17. Fundo Marruecos.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1989	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	107.5	135.6	5.5	0	0	0
1990	0	0	8.5	0	6.5	0	0	s.i.	s.i.	s.i.	s.i.	s.i.
1991	s.i.	s.i.	s.i.	s.i.	70.1	114.5	112.2	s.i.	s.i.	11.5	0	32
1992	0	0	13	27	123.5	155.3	14	47.8	20.3	0	8.5	0
1993	0	0	0	79.6	72.4	52	45.9	27.5	6.2	4.4	4	0
1994	0	0	0	18.6	65.9	51.8	94.7	9.4	17.4	9	0	3
1995	0	4.5	0	17.6	1.5	48.4	79.9	31.5	12.2	2	0	0
1996	0	0	0	38.5	8.7	46.5	21.3	33.2	0	4.5	0	1
1997	0	0	6	0.1	136	313.6	46.5	85.5	63.9	71.9	5	3.5
1998	0	0	0	24.6	8.5	17.8	0	0	28.5	0	0	0
1999	0	0	16.5	12.4	2	49.9	23.7	84.5	127.9	20.9	0	1.5
2000	0	8.5	0	12	16.9	282.7	16	0	105.6	12.1	0.6	0
2001	0	0	2.5	14	44.1	2.4	208.2	51.8	10.7	3	0	0
2002	0	0	5.3	1.4	137.1	234.4	77	76.7	11.5	2.5	0	2
2003	2.7	0	0	0	72.8	58.6	54.1	8.2	11	0	14.5	0
2004	0	0	15.9	60	15	40	81	60.7	10.5	3.1	47.3	0
2005	0	0	14.8	6	83	150	31.8	131	7.2	11.8	14	0
2006	0	0	0	2	21	88.2	135.3	61.5	s.i.	s.i.	s.i.	s.i.

**Tabla A. 18. Huechún Andina.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1994	0	0	0	17.5	38.5	18	58.2	7	6.2	5.5	0	0
1995	0	0.5	0	19.8	8	37.3	5.3	s.i.	s.i.	s.i.	s.i.	0
1996	0	0	0	9.5	13.3	24.2	8.9	18.9	0	5.7	0	0
1997	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1998	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	0	10.5	0	0	0
1999	1.2	0	10.3	6.8	3.2	31.1	13	92.1	56.7	7.4	s.i.	0.1

2000	0	0.6	0	9.6	18.6	222.4	21.2	0	59.6	7.9	0	0
2001	0	0	9.8	11.1	23.4	1.1	125.7	32.8	14.1	4.9	0.8	0
2002	0	0	0	17.4	106.7	244.9	89.7	37.6	10	0	0	1.7
2003	3.8	0	0.2	0	62.1	34.3	45.8	2.8	2.5	0	5.1	0
2004	0	0	11.7	35.8	5	48.5	66.9	35.6	24.9	0.2	44.5	0
2005	0	0	16.9	8.1	24.9	102.8	17.3	84.5	23.8	9.1	8	0
2006	0	0	0	0.9	4.6	52.2	133.6	25.9	s.i.	s.i.	s.i.	s.i.

**Tabla A. 19. Huenchún Embalse.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1988	s.i.	s.i.	s.i.	s.i.	2	7	21	29.2	8.6	0	8	7
1989	0	0	0	16.1	20.3	14.5	77.9	56.2	7	0	0	0
1990	0	0	6.7	0	3	0.5	48.8	36.2	8.2	7	0	0
1991	0	0	0	2.6	36.6	145.7	60	9.5	40.1	5.7	0	4
1992	0	0	22	33.5	125.6	140.7	12.7	44.5	24	0	2.4	0
1993	0	0	0	62.5	52.5	15	29.5	22.5	4	0	0	0
1994	0	0	0	2.4	51.3	18.3	68.5	6.5	7	6.4	0	2.5
1995	0	0	0	s.i.	s.i.	s.i.	50.5	27.5	12.9	0	0	0
1996	3.4	0	0	18.5	14.5	22.5	26	20.7	0	5	0	0
1997	0	0	3	0	123	261	33.5	88.5	44	42	2	11
1998	0	11.7	0	17.9	9	16	1.5	0	10.5	0	0	0
1999	0	0	11.5	4.5	3	37	16	92.5	57	14.1	0	0
2000	0	1.5	0	5	12.5	217.5	14	0	84	4	0	0
2001	0	0	7.2	9.9	23.5	0.6	115.9	30.8	15.1	3.4	0	0
2002	0	0	0	10.5	107.9	261	102.4	36.4	10	0	0	0
2003	1.9	0	0	0	63.5	33.5	46.5	5	3.2	0	5	0
2004	0	0	14.8	31	7.1	35.5	68.5	44.5	19.4	0	56.3	0
2005	0	0	19	6.7	30.5	112.2	14	90	17.5	7.6	12	0
2006	0	0	0	1.2	5.8	65.7	113.7	s.i.	s.i.	s.i.	s.i.	s.i.

**Tabla A. 20. Ibacache Alto.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1988	s.i.	s.i.	s.i.	s.i.	1.3	22.4	48.1	96.6	12.8	0	0	0
1989	0	0	0	1.9	13.2	16.3	103	112.5	3.8	5.4	0	0.1
1990	0	0	10.5	0	6	7.2	70.6	30.7	28	12.4	0	0
1991	0	0	0	21.5	74.3	205.9	93.9	14.1	72.5	21.1	0	17.2
1992	0	0.5	18.7	19.2	260.5	231.5	11.5	124.9	34.5	0	0	0
1993	0	0	0	100.8	45	60	70	27	5	6	3	1
1994	0	0	0	37	114	47	44.6	10	17	0	0	0
1995	0	0	0	33.6	0	72.2	97	69	20	0	0	0
1996	0	0	0	16	9.2	41.4	66.2	108	0	0	0	0
1997	0	0	0	6	155.9	382.4	45.2	174.1	68.7	73.6	4	2
1998	0	0	0	1	10	33.4	0	0	13.1	0	0	0
1999	0	0	28	0	18.4	58.8	25.7	83.9	134.4	0	0	0
2000	0	10	0	9	16.2	462	15.5	5.4	196.5	0	0	0
2001	0	0	0	14.4	83.4	4	264.3	104.8	12	0	0	0
2002	0	0	2	0	181.7	236.6	86.7	143.7	11.2	9	0	0
2003	1	0	0	0	117	108.5	54.5	19.5	23.5	0	16	0
2004	0	0	6.7	52.3	23.7	48	84.4	99	19.3	10.5	32.1	0
2005	0	0	24.3	4.6	130	128.4	36.5	158.2	23.8	19	15.5	0
2006	0	0	0	6.5	18.3	107.2	238.2	46.2	s.i.	s.i.	s.i.	s.i.

**Tabla A. 21. La Dehesa.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1991	s.i.	s.i.	s.i.	s.i.	78.1	135	134	27	83.5	25.5	0	23.5
1992	0	0	17.5	54.8	163.5	131	22.6	s.i.	s.i.	s.i.	s.i.	0
1993	0	0	0	155	109	26.5	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1994	s.i.	s.i.	s.i.	s.i.	s.i.	32	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1995	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	72.5	36.5	27.5	9	0	0
1996	9.5	0	0	53.6	8	47.5	18.5	61.5	0.7	14.5	0	0.4
1997	0	0	27.4	1	119	321.5	69	112.5	96	88	19.5	48
1998	0	2	0	70	26.5	49	0	5	17	0	0	0
1999	0	0	11	21	2.5	58	42.5	133.5	107.5	26.5	0	6
2000	0	6	0	31.5	37.5	298.5	39	7	115.5	17.5	3	0
2001	0	0	24	28	59.5	10	172.9	68.1	53.4	20	1	0
2002	0	0	26	35	185	239	100.1	93.9	28	15	0	1
2003	9.7	0	0	0	74	60.5	83.6	9	25	0	14	0

2004	0	0	21.5	38	17	44	84.1	67	64.5	13	83	0
2005	5	0	35.5	5	81.5	171	45	222.5	53.5	58	11.7	0
2006	0	0	0	1	9.8	23.7	213.3	53.8	s.i.	s.i.	s.i.	s.i.

**Tabla A. 22. La Ermita Bocatoma Central.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1987	s.i.	s.i.	s.i.	s.i.	54.8	67.6	527.7	247.6	31.7	83.9	s.i.	0
1988	0	0	0	0	19	13	61.4	67.8	40.3	s.i.	13.9	9.6
1989	0	0	s.i.	52	65	16.5	111	201.9	39.7	0	4	5
1990	0	0	20.5	29	23.5	8	52.3	57	84.8	15	2	2
1991	0	0	0	22.4	88.4	153.7	235.5	12.6	s.i.	44.3	0	49
1992	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1993	s.i.	s.i.	s.i.	82	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	1	0
1994	0	0	3	24.5	47.5	48	124.6	9.8	21.8	26.5	0	0
1995	5.5	4.5	0	25	37.5	100.5	57.1	35.3	44.5	3	7.5	0
1996	3	0	0	49.5	6.5	33.3	18.5	31.7	4.5	7.6	0	0.3
1997	0	0	20.2	3	113.5	344.5	65	127	58	112.5	16	27.5
1998	0	10	10.3	52.9	10	23.5	0	2	13	0	0	0
1999	0.8	0.4	13.5	35.5	5.3	61.5	33	103.2	118	24	0	10
2000	0	10	0	31	43	315.5	67.5	8.9	99	5.5	27.5	0
2001	0	0	18	34	55.5	12	206.5	68.2	51.5	21.8	0	1.9
2002	0	0	14.5	33.5	207.8	304	94.5	124	49	5	0	2.1
2003	19	0	0	0	70	58.6	95	0	21.4	0	21	0
2004	0	2	16.5	42.5	15.5	73.4	68	70.6	54.5	8.5	97	0
2005	0	0	39.1	13.5	115.5	188.4	31.3	191	51.6	47.7	14.7	0
2006	0	0	0	2.7	8.8	69.3	218.9	37.4	s.i.	s.i.	s.i.	s.i.

**Tabla A. 23. La Obra Recinto Emos.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1995	s.i.	s.i.	s.i.	s.i.	s.i.	109.5	88.9	95.5	45.5	0	0.1	0
1996	2.5	0	0	60	10.5	76	37.5	94	10.5	4	0	0
1997	0	0	28	4.5	184.5	534	132.2	176	170	124.7	19.7	37
1998	0	3.6	4.3	85.5	49	52	0	2	21.5	0	0	0
1999	0.2	2	14	16.6	22	51	75	145	216.5	35.5	0	0.4
2000	0	41.5	0	38.3	32.7	621.5	49.3	2.6	200.2	12.3	6	0
2001	0	0	17.5	34.8	79.1	14.5	336.2	130.6	45.8	15.1	0.7	0
2002	0.5	0	39.5	31.9	301.4	346.8	197.3	220	55.6	12.5	5	2.4
2003	13.2	0	0.3	0	124.3	74.6	134.8	7.4	42.5	0	31.5	0
2004	0	2.5	22.6	50.9	20.5	71.2	141.8	93.8	65.7	10.9	168.5	0
2005	4.3	0	26.1	5.2	147.4	308.5	95.7	385.1	53.7	66.4	21.5	0
2006	0	0	0	6.7	8	122.8	350.3	113.8	s.i.	s.i.	s.i.	s.i.

**Tabla A. 24. Laguna Aculeo.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1988	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	10	3.2
1989	0	0	s.i.	23.5	47.1	24.8	192.1	188.1	24.7	10	0.9	0
1990	0	0	12.6	0	18.3	1.2	114.9	104.8	60.7	9.4	0	0
1991	s.i.	s.i.	s.i.	21	207.7	240.4	191.4	s.i.	s.i.	s.i.	s.i.	s.i.
1992	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1993	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1994	s.i.	s.i.	s.i.	s.i.	s.i.	60	154	14	11	7	0	5
1995	0	10	0	43	0	171	154	76.5	19	4	0	0
1996	0	0	0	40	12	58	67	80	0	11	0	0
1997	0	0	0	15	196	509	79	173	116.5	63	7	0
1998	0	1.5	0	32	15.5	49	2	0	23	0	0	0
1999	0	0	13.5	9	40.5	88	17	147	152	17.5	8.5	s.i.
2000	0	22	0	14	14.5	641.5	34.5	0	182	12	2	0
2001	0	0	0	19.7	87	9	404	122	12.5	2	0	0
2002	0	0	7	1.5	218	394.5	159	198.5	20.5	7	0	2.5
2003	3.5	0	0	0	119	129	79.7	16	31	1.5	31	0
2004	0	0	22	70.5	31	68	123	110.5	30.5	6.5	53	0
2005	0	0	11	7	128.5	251	60.5	193	36.5	11.5	19	0
2006	0	0	0	8.5	49	127	306	72	s.i.	s.i.	s.i.	s.i.

**Tabla A. 25. Las Bateas Fundo.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
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1985	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	0	0
1986	0	0	0	4	163	106.5	0	83.5	s.i.	0	19	0
1987	0	0	s.i.	11	70.3	31	517	221.8	12	28	0	0
1988	0	0	0	0	3	10	30.3	58	18	0	12.1	4
1989	0	0	0	18	28.4	22	108	111.3	0	0	0	0
1990	0	0	6	0	4.5	3.5	63.7	48.5	19	8.4	0	0
1991	0	0	0	5	66	0	53.5	8	39.5	5.5	0	0
1992	0	0	25.5	27.5	129.4	171.4	8.5	72.5	28	0	3.5	0
1993	0	0	0	66.6	65	20.5	22	26	1.1	0	0	0
1994	0	0	0	1.5	44	21.9	115.5	4.5	9.5	s.i.	0	0
1995	0	0	s.i.	14	6	43.9	49.6	32	22	0	0	0
1996	0	0	0	s.i.	14	28.5	46	16.5	0	4	0	0
1997	0	0	3	0	121.5	374.5	47	131	43.5	43.5	5.5	4
1998	0	0	0	17	10.5	23	0	0	9	0	0	0
1999	0	0	11	16	7	37.5	16.9	97.5	87.5	12	0	0
2000	0	0	0	8.7	21	342	13.5	0	94	0.2	0	0
2001	0	0	8.2	7.7	37.6	0	182	30.6	18	0	0	0
2002	0	0	0.1	12	129.6	272.2	149.1	59.9	7.8	0	0	0.2
2003	1.5	0	1.3	0	64.3	47.5	60.1	5.8	4.7	0	3.7	0
2004	0	0.2	18	59.2	12.2	46.7	90.2	79.5	27.3	1.5	44.2	0
2005	0	0	21.8	8	53.5	137.6	26.3	166.3	15.3	16	15.7	0
2006	0	0	0	0	5	74.9	201.5	39	s.i.	s.i.	s.i.	s.i.

**Tabla A. 26. Las Dos Puertas Fundo.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1990	s.i.	s.i.	s.i.	s.i.	s.i.	2.5	69	51	47	37.5	0	0
1991	0	0	0	33.4	141.2	s.i.	94.9	14.4	62.5	25.5	0	27
1992	s.i.	0	9.5	16.5	221.5	237	36	117	26.5	0	0	0
1993	0	0	0	77	121.5	128.1	53.6	16	0	7.5	4.5	4.5
1994	0	0	0	38	53	56	99	12	41	13	0	5
1995	0	0	0	72	2	2	105	61	3	22	2	0
1996	0	0	0	31	13	83	81	97	0	0	1	9
1997	0	0	0	7	116	304	53	156	97	103	16	0
1998	0	0	0	19	37	45	0	5	45	0	0	0
1999	0	0	13	16	39	59	30	103.5	142	9	0	0
2000	0	20	0	3	8	416	12	5	162	4	0	0
2001	0	0	0	38	109	7	373	139	16	0	0	0
2002	0	1	37	14	192	112	165	217	40.4	11	0	0
2003	2	0	0	0	160	101	66	17	19	12	30	0
2004	0	0	2	51	30	81	188	89	42	2	29	0
2005	0	0	29	7	135	240	61	156.5	32	4	14	0
2006	0	0	0	18	34	122.8	156	69	s.i.	s.i.	s.i.	s.i.

**Tabla A. 27. Las Melosas.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1962	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	0	69.9	11.8	83.6	0	8.5
1963	0	3.8	24	15	75.6	131.7	328.9	s.i.	192.2	43.5	69.7	0
1964	0	0	0	0	0	177.4	97.8	51.5	5	3	0	29.5
1965	0	0	0	217.5	69.5	56.3	100.5	471	16.5	85.9	87	5.5
1966	0	0	0.6	39.5	36.3	183.4	180.5	86	0	43.9	12	19
1967	9	7	0	12.5	98.3	62.5	61.7	19.7	31	54.6	0	0
1968	0	0	21	24	3.7	26.5	15	28	35.7	8	0	14
1969	0	0	3	125	31	314	131.5	99.9	23.1	35	7	0
1970	0	0	0	0	151.5	58.5	222	5	22	30.5	0	2
1971	12	3	7.5	6.5	46.8	235.5	97.5	28.5	8.5	73.5	8	9.5
1972	0	0	14.5	3	492.5	481.5	58.5	242.5	155	130	56	0
1973	0	0	0	28.5	200.5	45	277.5	6.5	11	10.5	0	0.7
1974	0	0	0	0	306.5	s.i.	11	21.5	0	14	27	5
1975	0	0	0	68.5	60.5	19.5	330	33	1	17	14.5	0
1976	4.2	18	3	3	86.5	218.5	41.5	22	42.5	92	11	11
1977	0	0	0	21.5	139.5	424	381	112.5	5.5	55.5	98.5	3.5
1978	7.5	0	1	0	56.5	132	671	40	49	71.5	114	1.5
1979	0	1.5	2	27	174.5	3.5	188.5	204	93	8	96	53
1980	11	19.5	0	360.5	372.5	205	156	16.5	58	2.5	16	2.5
1981	0	10.5	14	53.5	279.5	68.5	63.5	33.6	10	10	2.5	0
1982	0	0	7	0	240.6	842.5	479	s.i.	s.i.	s.i.	s.i.	s.i.
1983	49.5	10	0	70	147	95.5	128	93.5	12	8.5	0	0

1984	0	0	s.i.	23	156	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1985	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1986	s.i.	s.i.	s.i.	129.5	296	415.1	5.5	156.5	0	42.9	50	0
1987	0	0	18	8	103	129	778	394	28	105	0	0
1988	0	0	0	0	74	38	64.7	185.5	14	s.i.	0	s.i.
1989	s.i.	s.i.	0	38	s.i.	47	145	337	50.5	11	0	0
1990	0	0	90	24	8.5	33.9	36.5	112	146.5	9	0	3.5
1991	0	0	0	88	249.5	s.i.	s.i.	s.i.	113.5	7.5	11.5	56
1992	2.5	0	17	85.5	188.5	274	24.5	69	61	23	57.5	0
1993	6.5	5.5	0	264	s.i.	126	82	11	24.6	7	22.5	0.5
1994	0	0	0	102.5	138.5	93	348.5	11.5	89	23	3	1.5
1995	14.5	0	0	85.6	26	275	50.5	56	54.5	9.5	4	26.5
1996	7	0	0	52	0	53	s.i.	21	3	3	1.5	4
1997	0	0	28.5	41	164.5	715.5	83	187	256	60.5	5	1
1998	0	5.5	8.1	128.3	13.9	38	0	0	62	0	0	0
1999	0	0	11.5	53	50	143.4	27	107.5	206.5	20	0	0
2000	0	54	0	59.3	34.5	559.5	90.2	1	128.2	0	23	0
2001	0	0	27.3	60.5	86.5	73	428.9	166.5	18	27	0	0
2002	0	0	0	36.5	145	180	105	216	66.7	2	1.5	5.5
2003	88	0	0	0	92.1	69.9	169	50	76	0	23	0
2004	0	0	36	30	10	0	0	0	0	0	0	0

**Tabla A. 28. Loncha.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1976	s.i.	s.i.	s.i.	151.2	41.2	0	11.2	15.8	62.4	93.9	3.5	0
1977	5.4	0	0	41.2	53	143.1	281	83.6	0	57.3	40.7	0
1978	0	0	0	0	45.9	163.6	406.7	18.3	70.1	0	59.2	0
1979	0	0	0	10.5	46.9	0	217	34.3	75.5	0.1	38	62.6
1980	0	13	1.5	144.6	188	126.5	167.9	22.3	82.7	0	3	0.2
1981	0	0	2.9	20.9	295.2	51.1	41.2	31.5	32.4	11.5	0	0
1982	0	0	34	3.8	156.3	449.9	201.3	111.6	97.6	27.6	0	0
1983	0	0	0	20	35.3	152.4	117	78.6	62.5	0	0	0
1984	0	0	0	8.5	206	56.1	340.4	121.5	111.8	29.5	0.6	0
1985	0	0	12.2	7.5	61.7	22.5	129.5	4.1	10.9	27.7	s.i.	0
1986	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1987	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	0	s.i.

**Tabla A. 29. Los Guindos.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1989	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	151.7	158.2	17.4	8.5	0	0
1990	0	0	15.5	5.6	15.3	7.8	78.1	47.3	58.4	21.5	0	0
1991	0	0	0	32.3	150.1	226.5	104.9	18.3	62.5	13.5	0	28
1992	0	0	17.5	36.2	246.7	305.1	9.7	137	25.7	0	3	0
1993	0	0	0	49	107.8	134.3	78.6	42.9	2.1	2	5.3	0
1994	0	0	0	40.1	110.5	108.8	95.1	4.1	18.8	2.6	0	2.5
1995	0	0	0	55	0	214.5	142	88.5	17.5	13.8	0	0
1996	0	0	0	19.3	12.5	68	77	112	2	0	0	0
1997	0	0	0	16	150	467	59	134	118	73	24.5	0
1998	0	0	0	25	25	12	0	0	20.5	0	0	0
1999	0	0	11	2	40.1	69.1	43	96	174.4	4	0	0
2000	0	29	0	4.5	14.5	517	18	6	154.5	0	0	0
2001	0	0	0	20	124	21	285.6	163	19.5	0	0	0
2002	0	0	0	0	235.5	196	150	234	14.5	18	0	0
2003	0	0	0	0	119	136.5	79.5	20	40	5	16	0
2004	0	0	18	58	36	90	148	101.5	24.5	0	50	0
2005	0	0	10.5	5	178	198	70	132	20.2	10	29.5	0
2006	0	0	0	15	65	147	240	96	s.i.	s.i.	s.i.	s.i.

**Tabla A. 30. Los Panguiles.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1980	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	2.3	s.i.
1981	0	0	0	0	229	20	16.2	7	31.9	6	0	0
1982	0	0	3.5	3	100.5	301	106.5	57.4	32.5	24	0	0
1983	7	0	0	3	53.5	105.6	92	48.6	7.5	0	0	0
1984	0	0	0	0	127.5	32.8	243.3	51.5	35.5	9	0	0
1985	0	0	12.5	0	39.3	15.5	57.8	12.8	26	13.2	0	0
1986	0	0	0	16	122.9	129.6	0.3	38.1	0.6	3.7	26.7	0

1987	0	0	0	3	72.4	26.8	380.8	206.8	18.4	23.8	0	0
1988	0	0	10.6	0	1.8	17.8	28	90	9.6	0	5.8	1.8
1989	0	0	0	10.2	20.2	27.3	106.8	98.3	10	5	0	0
1990	0	0	6	0	9	4	65.5	42	20	13	0	0
1991	0	0	0	4.5	63.5	130	114	10.9	30	17.2	0	36.5
1992	0	0	21.4	21.3	182.8	174.8	19.2	67.5	25	0	5.5	0
1993	0	0	0	70.7	58.3	72.2	52.2	28.4	8.2	8.5	0	3.5
1994	0	0	0	23.2	76.8	39.8	78.9	6.6	13.1	3.5	0	9.5
1995	0	2	0	12.1	0.9	47.2	82.5	47.3	7.7	2.5	1.6	0
1996	0	0	0	26.2	5.7	36.1	31	39.7	0.5	4.9	0	0
1997	0	0	6	0.3	135.2	319	51.7	92	48	41.7	5	1.8
1998	0	0	0	19.6	9	21.5	5	0	21.5	0	0	0
1999	0.1	0	24.7	8.3	1.3	66.3	31.3	81.6	120	1.8	0.5	4.5
2000	0	18	0	17	12.5	369.1	21.1	0.3	140.7	4	1	0
2001	0	0	0.5	5.6	53.1	10.1	204.7	68	13.5	1.4	0	0
2002	0	0	0.6	0.7	184.4	230.8	97.7	105.5	12.4	3.2	2.4	0.5
2003	3	0	0.2	0	76.5	51	46.2	11.5	22.8	0.5	10.2	0
2004	0	0.9	7	39.5	20.5	48.4	73.7	51.6	21.3	0.9	52	0
2005	0	0	24	3.6	70.2	167	24.5	163.5	9	10.2	9.2	0.7
2006	0	0	0	4.5	17.2	86.1	110.4	45.5	s.i.	s.i.	s.i.	s.i.

**Tabla A. 31. Maitenes Bocatoma.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1988	s.i.	0	0.1	0.5	37.8	7.5	63.7	81.7	27.3	s.i.	s.i.	s.i.
1989	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	107.9	209.6	s.i.	6	0	2
1990	0.2	0	27.3	34.1	15.6	15.1	s.i.	s.i.	s.i.	s.i.	0	0
1991	0	0	0	s.i.	s.i.	109.4	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1992	0	0	s.i.	s.i.	s.i.	s.i.	33.7	s.i.	s.i.	s.i.	s.i.	s.i.
1993	s.i.	s.i.	s.i.	126.9	149.7	53.7	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1994	s.i.	s.i.	s.i.	s.i.	s.i.	43.3	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1995	3.4	4.5	0	31.5	19.5	68.1	51.6	49	34.4	4	3.5	0
1996	0	0	0	50	8.7	37.2	15.6	32.9	4.5	6.2	0	2.5
1997	0	0	26.5	7	131.5	411	32	161	121.5	44	15.5	31
1998	0	6	9.5	35.5	21.9	26.8	0	2.5	14.5	0	0	0
1999	0	0	11	27	28	68.7	26.5	90	52.5	20	0	4.5
2000	0	10	0	30	25	400.5	44	10	88.5	1	14.5	0
2001	0	0	12	36.5	48	8.5	271.2	98.2	24.3	24.7	0.5	2
2002	0	0	13	32.6	202.6	158	117	143.8	45.5	18	2	0
2003	33.1	0	0.5	0	79	66.5	93	6	29	0	20	0
2004	0.5	9.5	8	33.3	12	46.3	65.7	57	59.9	13	74.1	0
2005	0	0	29	10.6	109.6	316.3	18	171.5	59.5	34.2	14	0
2006	0	0	0	4.5	9.6	79.5	188	29.5	s.i.	s.i.	s.i.	s.i.

**Tabla A. 32. Mallarauco.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1992	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	9.5	95.1	23.5	0	6.5	0
1993	0	0	0	62.6	58.8	56.1	47.9	33.7	12.6	6.2	6	2
1994	0	0	0	35.5	96.8	51.5	70.2	6.2	15.6	4	0	0.5
1995	0	0	0	24.5	2	83.6	124.7	45.3	0.5	0	1.5	0
1996	0	0	0	6.8	11	43.7	39.5	63	0	3	0	2
1997	0	0	0	7.5	143	283.5	72	127.5	74.5	58.5	6	2.5
1998	0	0	0	10	11	36	0.4	0	10	0	0	0
1999	0	0	23	2	6	61.5	32.5	95.5	115	5	0	0
2000	0	13	0	12.5	8.2	344	8	0	126	0	0	0
2001	0	0	0	5.2	52.7	6	228.2	70.5	12	0	0	0
2002	0	0.5	0	0	142.4	241	91	107	10	6.5	0	0
2003	0	0	0	0	73.5	81	46.5	22.5	19	0.5	18.2	0
2004	0	0	11.5	61.3	29.5	52.5	67	70.5	10.2	5.1	41.2	0
2005	0	0	22	0	114.5	182.5	27.4	115	15	13	16	0
2006	0	0	0	4	41.3	82	263.5	38	s.i.	s.i.	s.i.	s.i.

**Tabla A. 33. Melipilla.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1971	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	33.7	12.3	33.1	0	2.7
1972	0	0	9.9	2.4	100.8	203.4	9.2	58.5	28.6	0.2	6.2	0
1973	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1974	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.

1975	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1976	1.5	0	0.4	0	19.3	42.3	12	25.7	35.6	32.1	16.8	0
1977	0	0	0	15.4	19.4	122.6	252	34.8	0	32.8	16.1	0
1978	0	0	0	0	30	103.1	228.2	10.8	44.9	0.3	30.9	0
1979	0	0	0	16.5	25.5	0	188.6	30.8	42	0	14.2	5.1
1980	0	0.7	0	57.7	77.3	74	116.9	18.4	56.8	0	1.4	0
1981	0	0	2.3	3.2	243.6	52.8	15.2	7	17.5	5	0	0
1982	0	0	25.4	0	127.5	321.3	120.5	61.9	30.6	27.3	0	0
1983	3.1	0	0	3.5	29.1	123.6	76.6	82.6	26.2	0	0	0
1984	0	0	0	2.5	141.6	31.1	338.5	74.6	77	16.4	0	0
1985	0	0	6.7	5.8	45.5	18.7	81.4	0	15.3	12.1	0	0
1986	0	0	0.8	33.3	142.7	102.9	2.4	55.5	0	0.3	45.5	0
1987	0	0	0	1.6	58.7	31.9	380.5	187	29.7	25.3	0	0
1988	0	0	5.9	0	1.8	20.4	33.9	71.6	7.2	0	8.6	5.2
1989	0	0	0	8.1	33.5	17.2	94.1	93.4	8.5	7	1	1.6
1990	0	0	5.7	1.4	9.1	10	50.9	26.3	21.1	14.8	0	0
1991	0	0	0	16.1	78.5	169	101	11.7	60	21.5	0	12.8
1992	0	2.7	17.2	22.1	183.5	233.7	3.2	138.6	0	0	2.7	0
1993	0	0	0	72	69.5	51.5	53.6	37.5	2.8	5.2	5	0
1994	0	0	0	49	102.9	71.6	83.5	8.5	12.7	4	0	4.5
1995	0	0	0	31.4	0	111.6	109	49.1	7	6.5	0.6	0
1996	0	0	0	21.4	15	49.5	48	75.5	0	2	0	2
1997	0	0	0	10.5	109	319	41.5	132	58.2	70.5	10.7	0
1998	0	0.7	0	17.3	9.8	21	0	0	10	0	0	0
1999	0	0	14.2	3	20.5	50.1	17.2	94.8	122.7	4.5	0	0
2000	0	15.5	0	4.5	11.3	327.9	14	2.8	126.7	0.2	1.8	0
2001	0	0	0	19.6	87.3	7	207	106.7	13.3	0	0	0
2002	0	2	3.5	0.4	216.1	273.5	108	139.6	10.2	5	0.3	0.4
2003	3.8	0	0	0	86	96.6	46.9	18.5	32.8	3.2	15	0
2004	0	0	21.8	43.3	33.5	48.2	91.6	82.2	16.2	10.5	44.5	0
2005	0	0	21	1.3	128	153.4	41	116.5	17.4	14.4	17.4	0.2
2006	0	0	0	7.5	27.6	71.1	191.5	38	s.i.	s.i.	s.i.	s.i.

Tabla A. 34. Peñaflo.

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1971	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	37	8	0	0	0
1972	0	0	12	0	104	158	48	144	70	0	0	0
1973	0	0	0	0	31	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1974	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1975	0	0	0	23	14.1	12	191	46	0	0	11	0
1976	0	0	0	0	20	71	14	s.i.	29	28	9	s.i.
1977	0	0	0	7	15	74.7	197	49.6	0	23.3	17	0
1978	0	0	0	0	35	72	279	13	19	2	41	0
1979	0	0	0	17	5.1	0	110	s.i.	32	s.i.	s.i.	s.i.

Tabla A. 35. Pirque.

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1967	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	48.5	0	0
1968	s.i.	0	1.4	18.8	s.i.	13	s.i.	s.i.	s.i.	2	s.i.	s.i.
1969	s.i.	s.i.	s.i.	71.3	20	77	12.5	17.5	s.i.	2	s.i.	s.i.
1970	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1971	s.i.	s.i.	0	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1972	s.i.	s.i.	0	s.i.	s.i.	s.i.	66.5	164.4	71	17	21	0
1973	0	0	0	3	52.5	42.5	81.5	1	8.5	41	0	0
1974	0	0	0	0	32.9	256.6	36.5	36.3	41.5	0	22	0
1975	s.i.	s.i.	s.i.	11	s.i.	11.3	175.5	36.5	1.7	0	22.5	0
1976	0	0	9	3	40.5	130.2	15.2	27.8	23.5	47.8	20.6	0
1977	0	0	0	16.5	43.5	144	226	58	3.5	34.6	38.6	0
1978	0	0	0	0	29	90.7	395.5	22	34.4	6	95.6	1
1979	0	0	0	11	27.9	1.5	125	79.9	76.5	0	35.3	20.5
1980	0	11.5	0	118.1	118.6	97.6	117.6	13.5	76	0	12.8	0
1981	0	1.5	5.9	4	219.9	s.i.	s.i.	s.i.	s.i.	15.5	1.1	0
1982	0	0	20.4	2.3	119.5	438.8	165.5	92.5	78.3	30.5	1	0
1983	9.3	4.3	0	29	76.5	140.9	116.2	58	43	5	0	0
1984	0	0	0	0	88	53.4	308.5	79	47.5	24.5	6	0
1985	0	0	23.4	0	50.5	16	88.2	9	10.5	38.7	0	0
1986	0	0	0	24	111.7	222.4	4.5	79.6	1.8	5	31	0

1987	0	0	0	19.5	53	61	429	252	20.3	69.9	0	0
1988	0	0	0	0	7.2	12.8	32.9	99.1	15.6	0	20.6	5.2
1989	0	0	0	40.6	40.3	25.4	113.6	213	22.7	7.5	0	0
1990	0	0	15.6	2	15.8	3.6	77.3	78	43.6	14.2	0	0
1991	0	0	0	6.4	131.9	152.3	164.7	11.1	79.1	14.8	0	51.1
1992	0	3.5	11.5	57.8	185	119	0	18	0	0	15.5	0
1993	0	0	0	117.5	87.3	90.3	73	30.5	9.2	15.2	4.9	1.9
1994	0	0	0	36.4	66.6	80	169.4	12.4	28.7	6.9	0	8.6
1995	0	3.5	0	24.4	6	93.3	81.8	63.5	30.9	0.1	0	0
1996	0.5	0	0	68.3	12	44.5	31.2	61.2	5.8	1.3	0	0.5
1997	0	0	9.2	4	143.5	379.6	82.5	118.2	102.5	73.5	7.5	5.5
1998	0	4.3	0.2	48.1	26.5	31	0	0	21.5	0	0	0
1999	0	0	13.2	18.5	10.5	66	51.5	124.1	153.5	25	0	1
2000	0	41.5	0	35.5	21.5	419.5	23	0.9	138.4	3.4	4	0
2001	0	0	11.5	26.2	53.7	2.3	237.5	86.4	22.5	3.2	0	0
2002	0.6	0	13.1	16.2	174.8	196.2	118	150.1	40.5	13.2	1	3
2003	7.9	0	0	0	105.9	71.4	88.4	7.1	29.2	0	26.4	0
2004	0	0	20.5	34.5	23.3	51.6	100.8	85.7	35.3	6.4	80.6	0
2005	0.7	0	16.1	9.1	103.6	209	33	207.5	22	24	8.9	0
2006	0	0.2	0	5.5	15.2	104.2	243.4	84.6	s.i.	s.i.	s.i.	s.i.

**Tabla A. 36. Quebrada de Macul.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2003	s.i.	s.i.	s.i.	s.i.	79.8	42.9	87	2.8	23.4	0.2	16.9	0
2004	0	5.3	20	67.2	12.6	60.5	98.1	64.5	42.7	8.7	110.6	0
2005	5.4	0.2	24.9	10.8	87.6	174	40.4	218.6	45.2	58.3	10.7	0.6
2006	0	1.2	0	s.i.	5.9	69.7	184.8	65.7	7.5	59.9	s.i.	s.i.

**Tabla A. 37. Queltehues.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1970	0	0	0	0	141.4	73.2	74.7	61	29.8	36.7	0	0
1971	4.5	0	10	0	25	335	47.6	39.9	9.5	71.1	0	9
1972	0	0	7.5	0	409	331.8	66	279.5	163	43	38.5	0
1973	0	0	0	16.3	123.9	29.7	166.3	0	11	16	0	0
1974	0	0	0	0	246.9	465.3	27	29	73	12.5	27.5	0
1975	0	0	0	41.5	75.5	6.2	243	57.5	0	11	16	0
1976	2.5	11	3	0	95.4	289	9	17.5	58	86.8	11.5	2
1977	4	0	0	5.6	109.5	353.7	333.5	129	1.8	77.5	88	1.6
1978	4.8	0	0	0	38.4	118.7	792	25	67.1	44	140	2
1979	0	1.7	0	23.1	81	6.5	32.8	277	s.i.	s.i.	s.i.	s.i.

**Tabla A. 38. Ramón Quebrada.**

1980	s.i.	s.i.	s.i.	10.5	21	142.1	90.6	0	68.3	6.1	3	0
1981	0	0.1	0	0	182	27	29	15	20	32	0	0
1982	0	0	18	s.i.	s.i.	s.i.	s.i.	s.i.	71.5	43.5	5	0
1983	15	0	0	29	50.5	124	86	62.5	42	0	0	0
1984	0	0	0	8	52	60.5	247.7	37.5	46.8	29	12	0
1985	2.5	0	26.5	3.5	61.5	12.5	89	22.5	18	28.5	0	0
1986	0	0	0	23.5	124	136.5	2	46	11	15	24	0
1987	0	0	0	15	52	40.8	402	112.8	11	84	0	0
1988	0	0	0	0	6	5	37.5	88.2	19	0	19.5	2.5
1989	0	0	0	46.5	41	40	87	151	20	0	0	0
1990	0	0	0	9.2	11	0	76	85.5	18.5	0	0	0
1991	0	0	0	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	0	s.i.
1992	s.i.	0	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1993	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	28.5	17.5	18.4	2.8	5
1994	0	0	0	5.3	46.5	39.2	96.3	21.5	26.4	1.8	1.6	3.4
1995	1	0.6	0	18	9.2	73.9	65.1	41	42	0.5	0.3	0
1996	2.7	0	0	51.6	7.3	39.7	22.2	42.8	5.4	6.6	0	4.5
1997	0	0	35.5	11	164.6	298.3	94.2	106.9	83.3	65.7	12.2	37.8
1998	0	1.3	0.6	44.6	26.4	29.4	0	4	15.6	0	0	0
1999	0	0	19.3	18.7	1.8	55.5	29.7	134.4	114.6	27.2	0	0
2000	0	21.1	0	30	34.6	321.4	37.8	1.1	139.2	7.9	1	0
2001	0	0	15.1	26.6	53.4	9	195.7	74	68	12.5	0	0
2002	0	0	21.5	26.5	152.5	225	101	97	28.7	6	2	0
2003	10.5	0	0	0	50	42	77.5	3.5	20	0	14	0
2004	0	2.5	12.5	42.7	14	49.3	82	62	47.7	8.5	98.5	0



2005	2	0	25	5	70.5	150	32.5	218.5	41.5	51	9	0
2006	0	0	0	1.5	4	54.5	175	57.5	s.i.	s.i.	s.i.	s.i.

**Tabla A. 39. Rincón de Los Valles.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1957	s.i.	s.i.	s.i.	s.i.	258	10	48	20	8.5	0	0	20
1958	0	0	0	0	105	76	31	48	6	0	4	0
1959	0	0	3	26	33	94	72.3	74.9	6	6	0	0
1960	0	0	0	0	23	95	46	19	6	0	0	0
1961	0	0	5	0	14	131	32	92	8	15	0	2
1962	0	0	0	0	17	146	13.9	8	10	11	0	0
1963	0	0	2	2.5	18	59.5	103.5	103	163.5	11.5	8	0
1964	0	0	0	0	0	65	21.5	49	0	0	0	0
1965	0	0	0	13.5	37.5	12.5	179.5	181	5	7	0	11
1966	0	0	0	25	4	184	113	32	0	0	11	9
1967	0	0	0	2	7.5	35.5	37.5	15	29	5.5	0	0
1968	0	0	0	10	0	8.5	1.5	16	17	0	0	0
1969	0	0	0	26	18	55.5	17	47	0	0	0	0
1970	0	0	0	0	57	24	134	12	16.5	0	0	0
1971	2	0	0	8	12	105	22.5	15.5	12	0	0	0
1972	0	0	0	0	70	117.5	41	124	62	5	0	0
1973	0	0	0	0	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1974	0	0	0	0	73.5	190	4.5	5	19.5	0	0	0
1975	0	0	0	13	22	2	112	27	4.5	16	17	0
1976	0	0	1.5	0	15.5	41.5	5	25.5	22	35	18	0
1977	0	0	0	0	36	71	179	36.5	0	17	20	0
1978	0	0	0	0	10	50	193	8	22.5	0	65	0
1979	0	0	0	10.5	13	0	54	40	23.8	0	14	0
1980	0	0	0	74	33	61	133	8	71	0	0	0
1981	0	0	1	0	101.4	41	44.5	15	5	0	0	0
1982	0	0	17	0	114	222	122.5	93	15	18	0	0
1983	0	0	0	31	38	97	129	45.5	17	0	s.i.	s.i.
1984	0	0	3	2.5	36	43	418.5	27.5	71	23	0	0
1985	0	0	15	0	37	4	55.5	6	0	11	0	0
1986	0	0	0	1	140	91	0	62	6	0	20	0
1987	0	0	0	9	56	33	487	181.5	16	38	0	0
1988	0	0	0	0	s.i.	9	22.7	31	22	0	11	3.5
1989	0	0	0	14.5	28	18	95	s.i.	11	0	0	0
1990	0	0	5	0	4	2.5	49.5	39.7	16.1	5.5	0	0
1991	0	0	0	5	49	156.5	71	0	24.5	s.i.	0	s.i.
1992	0	0	27	38	120	115.5	12.5	56.5	20	s.i.	0	0
1993	0	0	0	58.5	51	13.9	22.6	26	5	1.5	0	0
1994	0	0	0	4	45	5	90	9	13	s.i.	0	0
1995	0	0	s.i.	11	12.5	48	56	36.5	21.5	0	0	0
1996	0	0	0	30.5	10	33	41.5	17.5	0	3	0	0
1997	0	0	2.5	0	80.5	360	47	130	41.5	43	5	6
1998	0	0	0	15	14.5	23.7	0	0	6.8	0	0	0
1999	0	0	4.2	9	8	38.5	13.5	93.2	72.8	10	0	0
2000	0	0	0	7	17.7	304.3	14.5	0	102.6	0	0	0
2001	0	0	10.5	8.2	37.5	0	159	35.7	21	7	0	0
2002	0	0	0	13.5	144	274	133.4	63.3	6	0	0	0
2003	4.5	0	0	0	72.3	43	54.9	4.5	2	0	3	0
2004	0	0	12.5	58.4	9.5	53.5	76.9	63.2	21.8	3	45.5	0
2005	0	0	17.5	12.7	43.4	102.8	17.6	122.6	15.7	9.5	14.5	0
2006	0	0	0	0	4	72.5	184.1	28.5	s.i.	s.i.	s.i.	s.i.

**Tabla A. 40. Río Mapocho en Los Almendros.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1999	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	122.1	84.7	24.4	0	0
2000	0	9.8	0	37.6	30.4	308.5	76.9	14.6	123.5	10.6	15.3	0
2001	0	0	15.7	27.1	68.4	10.5	186.2	78.8	48.9	21.1	0.7	0
2002	1.3	0	32.2	38.3	158.7	193.1	96.2	114.8	45	16.4	3.8	1.7
2003	11.3	0	0.3	0	30.8	23.2	76.7	7.5	17.5	0	12.1	0
2004	2.8	1.5	20.1	40.9	20.5	55.7	88.6	73.1	68.2	20.5	98.9	0
2005	8.5	0	16.6	7.3	76.6	148.7	41	227.7	53.1	64	11.9	0
2006	0	0	0	0.8	5	74.1	219.9	46.9	10	58.9	s.i.	s.i.

**Tabla A. 41. Río Mapocho Rinconada de Maipú.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
2002	0	0	1.4	1.6	120.6	259.2	81.8	72.8	7.6	2.7	0	1.8
2003	2.4	0	0	0	70.5	34.2	58.3	3.1	2	0	10.6	0
2004	0	0	10	20.6	9.6	32.5	53.8	60.9	0.3	0	34.6	0
2005	0	0	s.i.	s.i.	s.i.	146.7	22.2	112.9	6.9	10.7	10.5	0
2006	0	0	0.5	0	17	85.6	152.5	35.9	0.9	58.7	s.i.	s.i.

**Tabla A. 42. Rungue Embalse.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1943	s.i.	s.i.	s.i.	s.i.	62	106	23	229	0	30	0	0
1944	0	0	0	0	56.5	212	20	190	0	20	0	0
1945	0	77	0	16	6	0	38	14	64	0	0	0
1946	0	0	0	10	10	53	18	58	0	0	0	0
1947	0	0	0	0	31	119	42.5	39	0	s.i.	0	0
1948	0	0	0	47	99	0	217	s.i.	s.i.	s.i.	s.i.	s.i.
1949	0	0	2	0	112	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1950	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1951	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1952	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1953	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1954	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1955	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1956	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1957	0	0	0	0	283.5	8	48	0	0	0	0	0
1958	0	0	0	0	175	82	48	68	5	0	9	0
1959	0	0	8	29	41	147	96	77	3	0	0	0
1960	0	0	0	0	21	160	47	30	0	0	0	0
1961	0	0	6	0	25	161	24	95	12	12	0	6
1962	0	0	0	0	18	281	12	7	4.5	8	0	0
1963	0	0	2	0	53	54	206	155	105	2	6	0
1964	0	0	0	0	0	58	43	63	0	0	0	0
1965	0	0	0	16.3	19	9	109	218.5	1.5	9.9	3	12.5
1966	0	0	0	46.5	6	164	216	24	0	0	30.5	34
1967	0	0	0	4.5	13	38.5	57.5	11.5	46.5	0	0	0
1968	0	0	0	8.5	0	10.5	3.5	21.5	22.3	0	0	0
1969	0	0	0	25	18	78.4	8.5	59.5	0	0	0	0
1970	0	0	0	0	94	28.5	179.5	2	19	13.5	0	0
1971	3.5	0	0	16	12	105	22.5	16.5	4.5	3	0	0
1972	0	0	0	2	121.2	214.5	37	178	76	3	3	0
1973	0	0	0	3	53.5	35.5	134.7	0	0	23.5	0	0
1974	0	0	0	0	89.6	253.1	21.1	4.6	14.9	1	17.5	0
1975	0	0	0	19.7	27	3.6	144	36.5	0	2	18.5	0
1976	0	0	0	2.4	29.7	43	5	33.5	37.5	38.5	21	0
1977	0	0	0	9.5	21	157.5	258	66.3	0	25.7	13	0
1978	0	0	0	0	7	37	285.6	3.7	26.1	0	70.1	0
1979	0	0	0	14.4	21.5	0.8	122.7	20.3	29.1	0	21.9	2.3
1980	0	23.5	0	120.4	67.8	45.2	139.5	13	71.4	0	2.5	1.2
1981	0	0	5	0	228	28	25.5	13	11.2	6	0	0
1982	0	0	7.5	0.7	164.4	263.7	222.8	102.2	24.4	11.5	0	0
1983	25.6	0	0	2.6	46.5	99.7	122.7	55.5	20.2	0	0	0
1984	0	0	0	0	58.4	40.2	488.7	39.5	49.6	9.3	0	0
1985	0	0	2	0	35.6	19.7	57.8	6	10.2	20	0	0
1986	0	0	0	21.8	172.1	146.3	0	135.4	4.6	0	44.5	0
1987	0	0	0	3.5	88.9	31.2	621.4	169.5	13.1	35.9	0	0
1988	0	0	0.5	0	2.5	15.7	33.8	71	12	0	21.4	1.4
1989	0	0	0	11.6	21.4	16.2	153.5	91.7	8.4	1.5	0	0
1990	0	0	8.7	0	3	0	41.5	36.5	29.8	3	0	0
1991	0	0	0	4	98.6	201.7	72.5	4.3	83.2	11.6	0	3.3
1992	0	0	31.6	26.5	166.4	215.3	12.6	73.1	24.5	0	6.6	0
1993	0	0	0	89.6	81.4	45.6	41.1	20	1.2	2.4	0	1.4
1994	0	0	0	2	80.5	23.3	110.3	8	25.8	1.5	0	0
1995	0	0	0	17.2	2.5	44.1	58.1	52.5	20.8	0	0	0
1996	0	0	0	29	13.5	37.5	69.3	42	0	7.3	0	0
1997	0	0	1.5	0	181	492.8	45	167.8	83.1	74	3.2	6.5
1998	0	16.5	0	30	5	30.7	0.5	0	1.5	0	0	0
1999	2.9	0	17.3	7.5	13.3	49.1	14.8	71.8	98.5	6.5	0	0

2000	0	4.5	0	8	19	347.1	24	0	119	0	0	0
2001	0	0	0.6	5.6	39.4	0.9	315.1	53.8	8.2	1.9	0.3	0
2002	0	0	0.5	4.5	219.5	333.5	172.7	78.9	13	0	0	0.3
2003	1	0	0	0	92.8	60.9	67.3	4.7	6.9	0	6	0
2004	0	0	22	44	14	49	77.5	79.5	25.5	0.5	46	0
2005	0	0	21	3	56.5	151	31.1	135	18.5	7	9.1	0
2006	0	0	0	s.i.	s.i.	s.i.	s.i.	28.8	s.i.	s.i.	s.i.	s.i.

**Tabla A. 43. San Alfonso.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1962	s.i.	s.i.	s.i.	s.i.	0	0	0	12.5	3.5	61.6	0	0
1963	0	0	16	12	62	69	282.5	250	165	30.5	30	0
1964	0	0	0	1.5	0	148	77.5	98	0	3	0	0
1965	0	0	0	79	76.5	39	143.5	297	18	18.9	0	29
1966	0	0	0	29	18	265.6	148	89	1	11	12	2.5
1967	0	1.6	0	6	24	44	48	27	54	25	2	0
1968	0	0	5	0	0	11	6	25	53	0	0	0
1969	0	0	0	110.5	24.5	126.5	47.5	79	4	14	0	0
1970	0	0	0	0	114	41	194.5	19	31	37	0	1
1971	3	0	10	2.5	25	244.5	19	55	10	53	0	8
1972	0	0	7	5	248.5	231	104	189	126.5	46	36.5	0
1973	0	0	0	0	78	70	142.5	3	s.i.	s.i.	s.i.	s.i.

**Tabla A. 44. San Antonio (Pta. Panul).**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1971	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	0	45.5	7	21	0	15
1972	0	0	21.5	2	117	205.5	78.5	185.5	58.5	10.5	3	0
1973	0	0	0	1	64	46.5	94	3.5	0	68.5	0	0
1974	0	0	0	0	198.5	204	18	8.5	37	0	14	14
1975	0	0	s.i.	11	25	16	94	s.i.	s.i.	s.i.	s.i.	s.i.
1976	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1977	0	0	0	15.5	35.5	157.5	236	61	0	58	21	0
1978	0	0	0	0	26	100	220	26	78.5	0	57.5	0
1979	0	0	0	40	38	0	178.5	28	34.5	0	27	12
1980	0	0	4	129	137	124.5	158.5	12.5	51.5	0	0	0
1981	0	0	0	14	148.5	41	s.i.	2.5	9	0	0	0
1982	0	0	26.5	0	145.5	220	123.5	69.5	49.5	14	0	0
1983	0	0	0	9	45	201.5	94	59	9	0	0	0
1984	0	0	0	4.5	99.5	46.1	224.9	84.5	94	21	7	0
1985	0	0	5	2.5	46.5	42	93.5	84.5	27	9	0	0
1986	0	0	0	95	229	189	0	121	4	0	57	0
1987	0	0	0	22	73	31	350.5	149	133	21	0	0
1988	0	0	9	5.5	2.5	s.i.	34.5	75	14	0	s.i.	0
1989	0	0	0	0	6.5	21.5	129.5	73	s.i.	3	0	0
1990	0	0	31.5	4.5	4	4	65.5	24.5	s.i.	26.5	0	0
1991	0	0	0	25	97	189.5	75	14	41.5	s.i.	0	15.5
1992	0	0	12	27.5	179.1	278.5	5	127.5	27	0	0	0
1993	0	0	0	89.5	87.5	86	73.5	25	0	10	4.5	0
1994	0	0	0	55	53	42	47.5	0	19.5	20	0	0
1995	0	0	0	45	0	48	123.5	43	s.i.	5	0	0
1996	0	0	0	18	15	69	71.3	77	8.5	0	s.i.	3
1997	0	0	0.6	5.3	149.4	274.7	47.7	127.6	72.9	52.8	11.4	0
1998	0.3	0.9	0	8.2	23.7	4.6	0	0	12.2	0	0	0
1999	0	2.4	13.3	1.3	22.1	48.1	21.5	60.9	91.4	1.1	0	0
2000	0	18.2	0	3.6	11.7	274.9	12.7	0.8	148.7	0.2	0.5	0.7
2001	0.2	0.7	0.3	29.8	76.3	5	240.1	100.5	11.5	0.3	0.1	0
2002	0	0	17.6	11.5	179	134.3	121.5	136.2	20.5	4.3	0.3	0.4
2003	1.4	0.4	0.4	0.1	92.9	60.5	45.3	16	18.5	4.1	19.6	0.2
2004	0.4	0	9.2	72.1	18.1	52.5	117.3	79.1	15.8	4.7	25.7	0
2005	0	0.5	27.7	1.6	110	123.9	44.4	94.8	19.7	4	5.8	0
2006	0	0	0	6.2	33.9	113.2	179	59.1	s.i.	s.i.	s.i.	s.i.

**Tabla A. 45. San Gabriel.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1977	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	2
1978	0	0	0	0	40	70.5	484.5	23.5	64.5	25.3	136	0
1979	0	0	0	23	34	6	96.5	108	50	1	77.5	41.5

1980	0	23	0	216.5	172.5	151	146	8.5	108.5	3.5	7	0
1981	0	12	13	30	266	37.5	43	23	8	s.i.	s.i.	0
1982	0	0	10	0	139	679	346.5	131	170.5	36	1	0
1983	36	9	0	50	63	137.5	107	104.5	1.5	15	0	0
1984	0	0	0	27	75	94	273.5	114.5	71	18.4	14	0.4
1985	3.5	0	24.5	4	78.5	23.5	77	5	21	120.5	0	0
1986	0	2	0	83	206	299.3	5	125.2	0	20.8	56	0
1987	0	0	0	8.5	72	114	439.5	341.5	12	92.5	0	0
1988	0	0	0	0	52	26	70	154	38	1	4	5
1989	0	0	0	42	58.4	33	166	327	112.5	0	s.i.	s.i.
1990	0	0	0	45	4	28	54	36	101	6.5	0	0
1991	0	0	0	52	206.5	207.5	269.5	12.5	58	20	4.7	47.7
1992	0	0	12	95	147.5	0	62	9	3.8	7	47.5	0
1993	12	0	0	205.5	199.6	146	74	29	29	8	10	1
1994	0	0	0	44.5	179.4	89.1	122.7	0	25	24	60	15
1995	0	0	0	7	0	155.5	26.5	49	75	6.5	0	0
1996	0	0	0	5.5	0	37	30.4	62	0.4	0.3	0	0
1997	0	0	37	24.5	127.5	599.5	92	181.5	158.6	86.6	3	29
1998	0	11	5	136.1	28.3	43.5	0	0	46	0	0	0
1999	0	0	9	36	48	80.4	30.5	77.5	266.7	20	0	0
2000	0	36	0	39.7	26.5	598.3	43.5	1	106	5	16	0
2001	0	0	14.5	55	94	37	400.5	184	21	23	0	0
2002	0	0	15	42	247	205.5	96.1	316	75.5	9.5	2	1
2003	89.5	0	0	0	86.5	112	115.2	12.5	65	0	47.5	0
2004	0	0	24.5	66	36	77	94.2	60.1	73.5	22.6	111.5	0
2005	0	0	41	11.5	174	339	44	310.4	71	37	13	0
2006	0	0	0	9	27	105	140	78	s.i.	s.i.	s.i.	s.i.

**Tabla A. 46. San José Retén.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1971	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	18	16	33	0	7
1972	0	0	4.5	7	238	262.5	56.5	209	146	74	40	0
1973	0	0.2	0	10	98	55	177	3.6	13	40	0	0
1974	0	0	0	0	188	s.i.	s.i.	54.5	27	0	0	0
1975	0	0	0	29	56.5	5	150	88.5	0	0	23.5	0
1976	0	0	0	s.i.	s.i.	s.i.	s.i.	0	67.5	105	18	2
1977	0	0	0	9.5	61.5	230	244.5	84.1	2	51.5	35	8
1978	0	0	0	0	36	58.5	453	24	62	7	105.5	2
1979	0	0	0	20	62.5	6.5	120	126	71	0	68	31
1980	0	34	0	123	56	111.5	128.5	17	30.5	0	0	0
1981	0	6.5	4	10	257	21	38	22	23	22.5	1	0
1982	26	0	13.5	0	149	599	141.5	103	103	37	4	0
1983	33	4	0	49.5	51.5	161	133.5	38	49	0	0	0
1984	0	0	0	22.5	86	52	255.9	43	70	29	10	0
1985	6.5	0	38.5	7	65	11.5	134.2	22.3	26.5	63	0	0
1986	0	8.5	0	29	192.8	261.1	2.5	92.3	9	24	33.5	0
1987	0	0	8.5	13.5	71.5	60.5	460	321	18	71.5	0	0
1988	0	0	2	0	25	12	67.5	108	15	0	5	3.5
1989	0	0	0	55.5	44.5	26	110	220	43.5	0	0	0
1990	0	0	47	22.5	22	6.5	37	82	75.5	9	0	0
1991	0	0	0	16	154	154	198.5	25.5	88	47	0	68.5
1992	0	0	s.i.	84.5	157.5	169.5	40	53	37	2.5	17	0
1993	3.5	0	0	125	212	44	49	27	25.5	8.5	5	0
1994	0	0	0	s.i.	80.5	23	203.5	20.5	34.5	14.5	2	0
1995	5.5	9.5	0	32	16.5	96.8	60	74	38	s.i.	0	0
1996	7	0	0	53	8	49	33	51	0	3.5	0	8.5
1997	0	0	27	3.5	116	442	77.5	130	105.5	80	17.5	23
1998	0	12	3	67.5	18	32.5	0	0	18	0	0	0
1999	0	0	8.5	33	25	58.5	20	101	113.5	19	1	3.5
2000	0	19	0	38.5	26	479.5	39	4	123	1.5	5	0
2001	0	0	18	34.5	59	10	278	118	22.5	19	0	0
2002	0	0	12.5	18.5	214	243	124.5	178	49	9	3	2.5
2003	20.5	0	0.1	0	92.5	84	107	3.5	39.5	0	29	0
2004	7	0	17	46	22	57.5	71.5	67.5	54	17	96.5	0
2005	0	0	27	9.5	105.4	336	35	211	34.5	22	11	0
2006	0	0	0	2.5	14.5	93.5	240.5	47	s.i.	s.i.	s.i.	s.i.

**Tabla A. 47. Talagante.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1971	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	30.2	9	40	s.i.	0
1972	0	0	s.i.	4.5	165.2	157.5	41	180.3	s.i.	s.i.	s.i.	s.i.

**Tabla A. 48. Terraza Oficinas Centrales DGA.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1960	s.i.	s.i.	s.i.	s.i.	s.i.	89	41	15.1	5	4.5	0	0
1961	2	0	16	0	4.4	85.6	18.5	68.9	41.6	23	0.2	7.6
1962	0	0	0	0.2	13.7	158.4	17	33.7	4.7	12.8	0	0.2
1963	0	0	5.1	0.4	22.8	35	134.3	98.4	113.8	28.7	6.3	0
1964	0	0	0	1.3	0	102.2	36.6	60.5	0.3	0.2	0	2
1965	0	0	0	34.6	32.6	14.6	130.8	160.2	7.2	17.7	3.3	13.1
1966	0	0	0.3	32.9	7.2	131.5	122.9	28.1	0.8	5.2	18	13
1967	0	0	0	1.3	15.4	34.5	48.2	23.8	30.2	19	0	0
1968	0	0	0	14	0	7.3	6.3	10.7	31	0	0.8	0
1969	0	0	0	26.7	15.1	61.4	27.7	41.8	1.5	1.7	0	0
1970	0	0	0	0	72.6	30.1	111.1	9.9	19.2	27.5	0	0
1971	0	0	0	2.4	33.8	118.7	28.5	44.7	5.5	12.5	0	1
1972	0	0	1.5	4.9	120.2	167.9	59.7	140.7	57.3	10.1	17.8	0
1973	0	0	0	2.9	18.4	27.6	68.2	0.7	6.7	35.8	0.3	0
1974	0	0	0	0	100.7	200.7	29.8	17.9	23.1	0	16.9	0
1975	0	0	0	18.5	20.9	2.4	119	21.1	1.2	0	15.1	0
1976	0	0	6	0	19.6	53.9	5.3	27.1	18.4	42.8	14.4	0
1977	0	0	0	12.5	39.3	125.7	122.6	45.9	3.3	26.6	31.1	0
1978	0	0	0	0	21	56.4	222.1	12.4	31.1	0	73.5	0
1979	0	0	0	7.3	19.7	2.5	87.8	43.7	37.3	0	28.1	13.6
1980	0	26.3	0	54.2	44.7	72.9	70	14.2	66.1	0	5.6	0
1981	0	2.3	6.9	1.1	189.7	15.8	33	10	11.6	10.5	0	0
1982	0	0	14.6	0.6	106.2	265.6	92.9	68.2	38.5	17.4	0	0
1983	8.7	0.7	0	28.9	59.5	120.2	81.9	45.9	39.8	0.5	0	0
1984	0	0	0	2.5	64.7	24.7	219.6	42.7	25.9	20.5	8	0
1985	1	0	28.5	0	47.1	17.9	60.6	13.7	6.4	21.3	0	0
1986	0	0	0	23.7	82.7	118.2	0.9	49.9	3.5	7	25	0
1987	0	0	0.5	11.3	39.5	34.9	344.3	179.5	13.1	61.7	0	0
1988	0	0	5	0	3.6	9.1	34.8	49.9	9.7	0	15	3.2
1989	0	0	0	40.4	24.4	18.3	82.7	100.9	16.9	1	0	0
1990	0	0	14.3	2.2	6.7	1.2	67.6	67	25.4	14	0	0
1991	0	0	0	1.6	69.1	110.1	97.2	4	47.9	13.9	0	36.5
1992	0	0.3	11.5	38.2	121.7	143.1	21.7	58.3	17.8	0	5.5	0
1993	0	0	0	99.9	70.8	33.7	49.9	28.1	9	5.4	2.3	0
1994	0	0	0	19.9	43.3	42.3	s.i.	8	15.6	4.6	0	8
1995	0.3	0	0	17.2	8.4	50.7	58.7	30.4	22.7	0.6	0.5	0
1996	1	0	0	55.2	11.8	34	24.1	41.4	3.2	3.3	0	1.2
1997	0	0	14	0.6	127	271.8	70.4	98.5	89.5	62.6	8.5	3.9
1998	0	9	0.2	41	16.8	26.8	0.2	0.5	17.7	0	0	0
1999	0.5	0.5	23.5	11.7	1.5	29.4	38.9	119	116.1	25.5	0	0.4
2000	0	17.3	0	20	19.2	279.8	34.4	0.7	112.6	15	0.5	0
2001	0	0	14.3	18.9	34.7	1.4	202	59.3	20.4	1.6	0	0
2002	0	0	4	14.8	145.9	244.3	97.7	76.5	30.5	3.6	0	1.5
2003	6.5	0	0.5	0	78.7	33.6	68	8.1	17.1	0	15	0
2004	0.1	0	21.6	41.1	14.8	45.9	97.8	61.3	30.3	2	73.3	0
2005	0	0	20	9.3	61.2	173.3	28.7	160.9	24.4	19.8	10	0
2006	0	0.2	0	1.7	6.9	87.5	149	62.8	s.i.	s.i.	s.i.	s.i.

**Tabla A. 49. Til-Til.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1943	s.i.	s.i.	s.i.	s.i.	34	2	0	0	7	0	0	0
1944	2	14	0	7	46	177	58	147	6	21	0	0
1945	0	81	0	11	6	0	66	20	39	0	0	0
1946	0	0	0	8	21	35	23	53	5	5	0	0
1947	0	0	0	5	21	137	40	24	1	11	0	0
1948	0	s.i.	0	38	99	4	195	0	0	0	0	0
1949	0	0	8	0	188	42	29	18	0	0	0	0
1950	0	0	1	78	101	5	0	47	10	7	24	0
1951	0	0	0	19	60	128	124	12	27	0	2	0
1952	0	0	0	0	88	113	54	24	33	20	0	0
1953	3	0	0	25	91	21	77	242.5	56	14	0	0

1954	0	0	0	112	81	101	61	10	10	0	0	0
1955	0	0	0	8	53	17	22	13	2	21	0	0
1956	0	0	15	11	28	6	118	43	5	0	0	0
1957	0	0	0	0	215	16	46	14	5	0	0	7
1958	0	0	0	0	130	70	43	49	0	2	6	0
1959	0	0	11	25	42	90	74	60	0	2	0	0
1960	0	0	0	0	22	144	42	29	3	0	0	0
1961	0	0	5	0	16	149	37	82	9	15	0	0
1962	0	0	0	0	13	230	9.9	15	5	8	0	0
1963	0	0	3	0	47	39	168	146	80	3	3	0
1964	0	0	1	5	0	54	s.i.	s.i.	0	0	0	0
1965	0	0	0	15	60	32	189.5	s.i.	s.i.	0	2	2
1966	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1967	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1968	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1969	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1970	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.
1971	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	s.i.	17.3	3	2.5	0	0
1972	0	0	s.i.	4.5	136	167	53	167	s.i.	s.i.	s.i.	0

**Tabla A. 50. Villa Alhué.**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic
1979	0	0	0	13	65.5	4.5	214.5	68.5	81	0	39	23.5
1980	0	25	3	168	204	90	165	28	85	0	1	0
1981	0	3	3.5	18	265.5	49.5	37	19	35	10.5	0	0
1982	0	0	32	4	152	442	174.5	150.5	72.5	46	0	0
1983	7.5	0	0	8	34	151.5	134	62.6	18	0	0	s.i.
1984	0	0	0	4.5	177	58.5	364	79	62	14	4.5	0
1985	0	0	14	0	49	19	91	4.5	21.5	16	0	0
1986	0	0	7	30.5	214	145.5	0	83.5	5	3.5	44	0
1987	0	0	0	0	95.6	41.4	452.6	173.4	42.2	44.5	0	0
1988	0	0	17	0	3.1	39.8	38	81.5	12	0	11	9.5
1989	0	0	0	s.i.	35.2	32.8	138.8	143.6	s.i.	7.3	0	0
1990	0	0	19	0.9	31	10	81.5	50.5	39.5	22.5	0	0
1991	0	0	0	26	95.3	94.5	117.9	14	30	16	0	25
1992	0	0	13.5	20.5	255.5	291.7	8	118	25.5	0	0	0
1993	0	0	0	48	111	123	99	36	0	9.5	16.5	0
1994	0	0	0	54	104.5	89.5	129	10	31	0	0	5
1995	0	0	0	62	0	140.5	114	63	2	0	0	0
1996	0	0	0	27	16	35.5	30.5	110	0	0	0	2
1997	0	0	0	16	111.5	439	83	117	83	80	14	1.5
1998	0	4	0	2	20.5	0	0	0	40.5	0	0	0
1999	0	0	0.5	6	18	64	37	108	191	6	0	0
2000	0	0	0	7	11	470.5	24	7	193.5	0	0	0
2001	0	0	0	7	135.5	13.5	292.5	162	14	3	0	0
2002	0	0	0	0	220.5	160	120	171.5	46	20	4	2.5
2003	0	0	0	0	123.5	127.5	61.3	24.5	15	5.5	11.5	0
2004	0	0	23.5	69	17	79	93.5	78	35	7	70	0
2005	0	0	5	13.6	114	188.6	58.5	150	35.5	12.5	38.5	0
2006	0	0	0	21	50	116.5	147	90.5	s.i.	s.i.	s.i.	s.i.

**Tabla A. 51. Batuco Retén.**

1938	-	-	-	-	61	39	26	1	0	2	1	0
1939	3	0	0	0	52	104	6	36	15	59	0.1	49
1940	0	15	0	9	19	69	127	20	10	2	7	0
1941	0	0	4	57	79	104	129	135	1	4	11	0
1942	0	0	0	0	27	92	95	98	9	8	18	1
1943	0	0	13	6	26	22	16	29	11	18	0	1
1944	13	21	0	5	42.6	138.7	19.6	145.5	3	16.6	0	0
1945	0.6	66.3	0	16.6	8.1	0	9.4	66	28.8	2.7	0	0
1946	0	0	0	6.7	15.4	19.2	33.1	36.4	0	5.2	0	0
1947	0	0	1.5	3.5	17.9	89	31.1	26.7	0.9	26	0	0
1948	0	0.6	0.4	39	89.4	38.1	145.4	6.1	13.1	0	0	0
1949	0	0	5.4	0	153.9	35.2	18.6	24.3	0	0	0	0
1950	0	0	1.2	77.1	99.6	5.5	0	32.8	17.6	4.4	15.6	0
1951	0	0	0	18.6	40.2	48.7	146.1	7.1	23.5	0	0	0
1952	0	12.5	0	0	82.1	117.4	47.7	20.4	28.4	5.6	0	0

1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	0	0	0	16.2	27.9	12.3	143.5	154	0.5	8.1	6	12.6	
1966	0	0	0	41.5	5.2	149.1	126.6	20.2	6.3	8.3	21.6	8.6	
1967	0	0	0	4.5	6.5	42	55	10	21	-	33	-	
1968	0	-	-	0	6	9.7	0	9.9	23.2	0	0.3	0	
1969	0	0	0	13.4	-	17.9	16.5	45.2	7	0	0	0	
1970	0	0	0	0	57.9	29.8	160.6	3.4	7	13.4	0	0	
1971	0.5	0	0	7	14.6	79.6	24.9	19	0.2	2	-	-	
1972	-	-	-	-	77.2	137	33	89	-	118.7	-	-	
1973	-	-	-	1.4	-	-	-	-	-	-	-	-	
1974	-	-	-	-	65	189.5	21.5	4	21	0	15	0	
1975	0	0	0	19.5	14	0	91	19.5	0	0	7	0	
1976	-	-	2	3.5	10	31.5	3	23.5	12	32	-	-	
1977	-	-	0	-	-	-	-	-	-	-	-	-	
1978	-	-	-	-	-	-	-	-	-	-	-	-	
1979	0	0	0	7.5	2.3	0	68.2	13.4	7.5	0	18.7	0	
1980	1.5	9.4	0	51.6	52	44	74.8	6.3	66.1	-	-	-	
1981	0	0	8.2	-	161.2	-	-	-	-	-	-	-	
1982	-	-	-	-	-	-	-	-	-	-	-	-	
1983	10	0	0	26.5	49.4	97	89.3	31.2	32.5	0	0	0	
1984	0	0	0	0	51.4	27.1	316.1	24.8	28	15.3	0	0	
1985	0	0	23	0	23.4	0.6	32.2	0	0	13	0	0	
1986	0	0	0	16	94.5	-	0	61.5	0	0	25	0	
1987	0	0	0	6.3	50	27.6	275.3	177	18	34.6	0	0	
1988	0	0	5.6	0	14	2.7	14.5	31	0.3	0	14	3.5	
1989	0	0	0	15.5	17.3	11	71.7	48.4	8	0	0	0	
1990	0	0	11.5	0	3.5	0	48.3	3	10.6	0	-	0	
1991	0	0	0	1	56.6	101	25.4	-	38.4	7.7	0	-	
1992	0	0	19	15.1	104	93.2	22.9	27.5	16.6	0	4.5	0	
1993	0	0	0	64.9	45.1	22.2	36.5	30.5	0	0	-	0	
1994	0	0	0	0	0.9	18.8	63.3	5.7	4.5	-	-	-	
1995	1	1.5	0	28.5	20	56	0	-	70	0	2.4	0	
1996	0	0	0	4.5	0	8.1	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	-	-	-	-	
1998	-	-	-	-	-	-	-	-	-	-	-	-	
1999	-	-	-	2.5	-	37.5	18	72.6	16.9	10	-	-	
2000	-	-	-	18	-	-	-	-	-	-	-	-	

**Tabla A. 52. La Florida.**

1913	0	0	0	26.9	68.8	19	153.8	66.9	56.9	0	0	0	
1914	0	0	0	14	90	248.8	154.1	97.4	206.5	139.9	74.4	0	
1915	0	2.8	12.5	49.5	136.6	107.5	16	25.3	2.2	10.8	7.3	0	
1916	12.2	0	22.1	2.3	29.7	18.1	75.7	61.9	56.2	3	37.9	0	
1917	0	0	0.1	1.8	41.5	112	5	16.6	51	0.2	0	0	
1918	0	0	7.9	38.9	52.9	82.1	34	31.8	200.9	6.7	53.4	2.3	
1919	1.3	0	6.1	70.7	291.3	179.2	160.7	24.6	16.1	14.9	1.2	0	
1920	0	0	0	0	141	127.6	58.5	21.5	3.2	4.2	12.1	22.2	
1921	0	0	0	0	295.7	0	0	0	0	0	0	0	
1922	0	0	0	-	-	-	-	-	-	-	-	-	
1923	-	-	-	-	-	-	-	-	-	-	-	-	
1924	-	-	-	-	-	-	-	-	-	-	-	-	
1925	-	-	-	-	-	-	-	-	-	-	-	-	
1926	-	-	-	-	-	-	-	-	-	-	-	-	
1927	-	-	-	-	-	-	-	-	-	-	-	-	
1928	-	-	-	-	-	-	-	-	-	-	-	-	
1929	-	-	-	-	-	-	-	-	-	-	-	-	

1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	27	0	0	11	29	73	270	90	59	10	50	0	0
1932	0	0	0	8	22.4	87.3	99.5	96.6	40	-	-	0	0
1933	51	37	0	0	85	127	47	70	40	9	0	0	0
1934	2	0	6	0	335	170	17	19	32	71	8	0	0
1935	0	0	0	1	27	99	59	47	31	69	0	0	0
1936	0	0	0	25	153	70	78	73	25	0	-	-	-
1937	0	0	0	0	59	83	129	90	58	39	5	0	0
1938	0	9	32	17	60	75	49	0	1	17	5	0	0
1939	5	0	0	0	87	94	19	46	19	60	3	39	0
1940	0	16	0	26	38	111	153	27	31	21	21	0	0
1941	0	0	7	123	110	130	203	199	22	21	45	0	0
1942	0	0	0	0	61	123	125	184	29	28	70	3	0
1943	0	0	26	28	43	37	54	52	53	32	0	0	0
1944	22	29	0	27	54	157	27	295	14	77	0	0	0
1945	0	86	0	21	6	0	54	71	53	0	1	0	0
1946	0	0	0	20	26	39	62	18	5	18	0	0	0
1947	0	0	0	2	15	140	-	-	-	-	-	-	-
1948	0	0	2	53	102	48	282	21	63	18	0	0	0
1949	0	3	9.5	0	255	42	27	56	0	0	0	0	0
1950	0	0	0	86	119	34	0	69	88	23.4	49	0	0
1951	0	0	0	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	0	0	3	42	77	57	139	253	177	35	0	0	0
1954	0	3	0	54	82	110	79	20	20	0	0	0	0
1955	0	0	0	10	53	97	14	20	9	45	5	0	0
1956	11	0	70	14	42.5	4	56	83	12	2	-	2	0
1957	0	0	0	3	169	30	57.5	50	24	6	0	30	0
1958	0	0	2	0	81	161	26	129	12	4	11	0	0
1959	0	0	15	64	63	110	80.5	-	-	21	0	0	0
1960	0	0	0	0	34	153.3	110	37.1	12.3	11.5	0	0	0
1961	47	0	34	0	46.9	76.4	32	117	56.6	29.7	-	13.3	0
1962	0	0	0	0.5	32.4	212.9	26	47.2	15.9	-	0	0	0
1963	0	-	-	0	19.6	46.9	161.2	-	136.2	-	-	0	0
1964	0	0	0	1	0	97.1	-	-	0	3.2	0	-	-
1965	0	0	0	50.5	-	-	96.9	245.7	18.2	23.5	-	13.3	0
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	9.2	-	0	2.9	18	50	64	35	53	-	1.5	0	0
1968	0	0	5.7	21	0	6.2	13	21.7	42.7	0	0	0	0
1969	0	0	0	42.1	33.5	110.9	49.3	54.9	0	-	0	0	0
1970	0	0	0	0	104.3	35.9	160.1	30.8	48.3	-	-	0	0
1971	0	0	0	2	44.7	164.4	38	66.7	12	25.5	0	3.3	0
1972	0	0	3.4	18.6	125.2	214.1	59	146.1	75	25.5	18.6	0	0
1973	0	0	0	4.5	34.5	40.5	101.7	1.3	14.1	45.7	0	0	0
1974	0	0	0	0	128	266.9	21.8	39.7	35.2	2.3	9.9	0	0
1975	0	0	0	71.5	29.5	4.1	148.5	-	1.5	1	21	0	0
1976	0	0	7	4	39.8	98.8	7	34.8	23	51.4	23.6	0	0
1977	0	0	0	17	53.6	151.6	200.5	54	0	44	45.6	0	0
1978	0	0	0	0	24.9	56.2	329.2	19.5	37.9	1.1	84.7	0	0
1979	0	0	0	12.5	22.5	3.3	102.3	81.7	58.4	0	36.8	21.9	0
1980	0.2	18	0	83.7	79.3	118.5	100.8	18.2	88	6.8	15	0	0
1981	0	1.2	6.8	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	0	0	10.6	78	147.7	163.5	26	63.7	27.5	0	8.4	0	0
1993	0	0	0	112.8	112.7	53.6	79.5	33.2	14.8	15.6	5.2	4.8	0
1994	0	0	0	31	48.1	59	127.1	16	26.5	13.5	0	11	0
1995	0	0	0	23.3	7.9	0	62.4	49.5	31.7	0	0	0	0
1996	0	0	0	49.6	8.8	27.5	26.9	49.1	6	5.8	0	0	0
1997	0	0	19	1.5	119.7	306.1	79.3	102.7	85.7	72	6.7	18.9	0



1998	-	0.3	-	44.4	26.5	35.9	0.3	1	13.6	-	-	-
1999	0.7	-	14.6	16.5	3.8	40	42.2	120.3	127.3	38.1	-	0.7
2000	0.3	26.5	-	27.5	26.1	379.5	45.2	1.9	123.6	11.3	1	-
2001	-	-	8.4	26.6	56.3	6.8	207.8	70.3	31.5	4.7	-	-
2002	-	-	11	17.8	157.2	250.2	109.8	102.6	35.6	4.5	0.3	-
2003	7.6	-	-	-	87.5	36	83.4	6.3	27.8	-	17	-
2004	-	1.6	13.5	51	10.7	53.1	103.7	70.7	-	4.9	115.5	-

**Tabla A. 53. Los Cerrillos.**

1952	0	0	0	0	32.6	89.8	29.7	26.8	36.5	18.1	5.1	0
1953	6.7	0	0	34.6	53.9	35.1	104.4	209.2	105.1	15.1	0	0
1954	0	0.9	0	81.4	80.2	80	93.2	18.5	13.3	4.6	0	0
1955	0	0	0	26	72.9	70.8	29	21	6.6	37.5	0	13
1956	4.6	0	31.7	11	24.7	5.9	72.7	71.6	5.8	6	0.5	1
1957	0.7	0	0	0	147.8	22.7	24.5	30.6	4.3	0	0	0
1958	0	0	1.2	0	59.4	120.1	16.6	74.2	11.8	1.7	5.4	0
1959	0	0	10.7	62.2	47.3	75	57.4	44.1	16.4	1.8	0	0
1960	0	0	0	0	36.8	90.1	43.8	25.2	4.9	1.6	0	0
1961	3	0	11.9	0	17.3	75.1	21.9	62.5	30.3	21.5	0	5.2
1962	0	0	0	0	11.5	149.4	11.7	26.3	3.6	8.8	0	0
1963	0	0	3.1	0	20.5	37.4	153.3	96.6	30.3	5.3	0	0
1964	0	0	0	0.7	0	68	35	59.7	0	0	0	1.2
1965	0	0	0	41.2	31.2	14.3	112.8	147.5	2.1	15.1	8.7	15.4
1966	0	0	0	43.3	6.8	115.1	80.5	35.2	0	2.5	35	12.6
1967	0	0	0	2.6	11	26	43	23	30	12	0	0
1968	0	0	0	14.9	0	6.9	1.8	9	22.6	0.4	0	0
1969	0	0	0	19.1	17.9	102	21.9	9.8	0	3.9	0	0
1970	0	0	0	0	68.7	26.6	161.6	6.4	17.3	9.4	0	0
1971	0	0	0	0	17.6	243.1	45.5	42.9	3.1	10.4	0	0.8
1972	0	0	5.5	0.8	177.8	237.1	43.7	83.1	71.6	6.9	0	0
1973	0	0	0	3.8	24.3	32.1	67.9	0.1	5.7	38.2	0	0
1974	0	0	0	0	111.5	217.5	28.6	12.8	9.2	0	17	0
1975	0	0	0	19.8	17.7	5.6	103.6	16.4	2.3	0	14.5	0
1976	0	0.2	3.1	2.1	14.3	50.1	4.7	25	12.8	32.7	12.2	0
1977	0	0	0	21	31.5	104.4	120.2	40.4	1.2	21.2	25.7	0
1978	0	0	0	0.2	20.9	59.4	259	12.3	24.7	3.6	99.3	0.2
1979	0	0	0	7.5	10.7	0.5	100.2	24.8	61.6	0	27	15
1980	0	12.5	0	46.3	32	67.7	12.4	62	0	6.1	0	0
1981	0	3.7	5.8	0.7	176.2	18.5	26.7	8.6	16.8	5.7	0.6	0
1982	0	0	24.9	0.1	108.3	273.4	110.9	55.6	48.2	14.5	0	0
1983	8.2	0.1	0	30.6	49.3	93.1	90.6	38.3	42.9	0	0	0
1984	0	0	1.1	1.3	71.9	37.9	224.4	59	23.6	18.4	4.3	0
1985	0	0	24.1	0.1	41.8	18	56.3	6.1	4.9	15.5	0	0
1986	0	0	0	17.4	84.6	113.2	1.1	47.9	0.4	1.6	26.8	0
1987	0	0.1	0	9.9	57.4	35.1	339.4	207	29	66	0	0
1988	0	0	5.6	0	4.2	10.7	28.7	61.6	7.6	0	14.9	5.2
1989	0	0	0	29.8	25.5	16.5	91.8	111	13.6	2.1	0.4	0
1990	0	0	9.3	0.2	2.2	1.8	60.7	65.4	5.2	15.3	0	0
1991	0	0	0	1.1	64.6	90.2	98	5	53.9	12.6	0	24.9
1992	0	4.5	13.1	30.4	110.4	156.3	18.7	45.8	19.2	0	9.7	0
1993	0.1	0	0	90.4	61	34.2	57.1	30.4	7.5	4.7	2.1	0
1994	0	0	0	20.2	46.5	43.5	70.3	11	17.7	3.6	0	7.5
1995	0.1	0.1	0	20.3	4.9	45.1	54.9	24.1	18.2	0.4	0	0
1996	2.5	0	0	41.4	11	39.1	21.2	30.4	1.5	3.8	0	1.2
1997	0	0	12.2	0.7	118.9	263.3	49.5	104.3	80.3	58.9	5	1.1
1998	-	0.1	0	28.9	16.2	19	0.7	0.9	11.9	-	0	-
1999	0	0	18	13	1.9	39.9	38.1	109.6	102.7	28.2	-	12.6
2000	-	13.6	-	17.4	20.7	260.4	25.8	0.2	116	10.7	1.6	0
2001	-	-	9	13.1	37.3	0.3	197.3	55.4	18.6	1	0	-
2002	-	-	8.7	11.3	146.4	268.6	92.8	82.9	23.1	4	0	0.1
2003	4.3	-	0.4	0.2	82.5	31.3	68.3	5.5	14.9	0	18.8	-
2004	-	0.2	14.5	33.9	15.6	42.5	83.6	56.8	22.8	1.6	62.4	-

**Tabla A. 54. Queltehues DMC.**

1929	36	0	0	0	84	60	11	126	47	0	0	34
1930	0	0	4	44	50	252	425	43	-	-	-	4
1931	6	0	0	19	40	108	175	38	16	12	18	0

1932	0	0	0	6	46	22	116	74	22	-	-	-	-
1933	46	40	0	0	96	130	30	79	3	0	5	0	0
1934	0	0	8	0	268	241	13	4	0	30	8	0	0
1935	0	0	0	0	39	101	68	65	30	49	0	0	0
1936	0	0	0	69	267	91	50	75	33	0	-	-	-
1937	0	0	0	0	180	90	197	251	31	14	8	0	0
1938	0	10	44	4	28	17	42	1	6	20	8	0	0
1939	11	0	0	0	101	60	36	107	0	69	2	28	-
1940	5	11	0	22	116	130	338	61	55	52	14	0	0
1941	0	0	16	453	339	219	562	238	22	101	102	0	0
1942	0	0	0	2	85	129	107	210	20	5	77	0	0
1943	0	0	98	11	148	173	64	22	81	22	0	3	0
1944	0	28	0	22	140	125	44	380	0	132	0	0	0
1945	8	101	18	88	11	17	144	49	45	0	50	0	0
1946	14	0	0	22	62	48	105	25	11	29	0	0	0
1947	0	0	0	11	-	-	-	-	-	-	-	-	-
1948	0	1	2	113	105	54	373	14	105	0	0	0	0
1949	0	0	16	0	339	81	33	61	11	0	0	11	0
1950	4	0	5	44	163	47	0	60	102	31	73	0	0
1951	5	0	0	12	129	191	109	28	50	0	7	0	0
1952	0	11	11	0	258	137	33	41	-	-	-	0	0
1953	12	0	0	20	119	68	163	-	-	-	-	-	-
1954	0	0	0	49	104	247	128	6	11	4	0	0	0
1955	0	0	16	6	142	204	44	36	22	52	0	4	0
1956	6	0	50	39	90	0	59	47	1	6	2	1	0
1957	3	0	0	1	234	11	81	65	4	0	0	5	0
1958	0	0	0	0	83	221	0	77	-	-	43	0	0
1959	0	0	22	154	21	180	304	46	55	11	0	0	0
1960	0	0	0	11	44	302.3	79	11	7	2.1	0	0	0
1961	7	0	119.2	1.5	71	138	91	102	81.5	18	0	23.6	0
1962	0	0	1	2.5	47.5	358	27	47.5	10	82.5	0	4	0
1963	1	11	30.5	21	81.5	149	301	344.2	158.7	43.5	50	0	0
1964	0	0	8	0	1	149	62	60.4	0	-	0	44.6	0
1965	0	0	0	118.6	77	51.9	143.5	341	13	49	6	59.5	0
1966	0	0	0	32	32	197	155	84.8	0	17.5	7.5	22	0
1967	6	6	8	9.5	63	36	40	38	17	34	14	0	0
1968	0	0	21	-	0	17.5	9	23.8	64.2	-	1.4	5.5	0
1969	0	0	0	93.2	71.2	222.7	76.1	45	7	34.1	0	2	0
1970	0	0	0	0	141.4	51.2	207.7	61	29.8	57.7	0	0	0
1971	0	0	0	3.5	25	242.4	71.4	44.2	9.5	71.1	0	9	0
1972	0	0	7.5	10	452	471	39	182.6	153	43	40.6	0	0
1973	0	0	0	16.3	123.9	51	166.3	6	11	16	0	0	0
1974	0	0	0	0	280.4	368	11	21.5	73	12.5	27.5	5	0
1975	0	0	0	41.5	75.5	6.2	159	74.5	0	11	16	0	0
1976	2.5	11	3	0	95.4	289	3	7.5	58	86.8	11.5	2	0
1977	4.5	0	0	18.5	100.1	324.9	298.8	111.5	0	73	86	0	0
1978	0	0	0	0	5.2	71	682.2	25.2	45.5	30.5	137.3	0	0
1979	0	1	0	22	122.4	6.5	164.5	205	84.5	4	94.8	41	0
1980	0	15	0	276.7	331.4	180.8	181.7	11.5	63	8.2	12.2	0	0
1981	0	10.4	14.2	36.5	324.6	41.5	48.2	24.8	10.4	21	1	0	0
1982	0	0	10	0	215.5	907.5	435.9	141.5	180.9	16.5	7.5	0	0
1983	32.5	12	0	46	82.8	90.5	132.5	71	16.5	9.5	0	0	0
1984	0	0	0	30.5	103.1	64	252	103.3	85.2	39	8	0	0
1985	0	0	46	3	92.4	20	146.8	8	43.5	126.4	0	0	0
1986	0	0	0	98	236.2	418.3	5	177	6	22.9	64	0	0
1987	0	0	15	0	121.8	120.6	562.6	374	16.8	92	0	0	0
1988	0	2	0	0	63.9	28.4	79.5	177	13	3	2.5	0	0
1989	0	0	0	0	58	37	150.7	319.2	73.9	4.2	0	0	0
1990	0	0	0	0	48	26	44	113.5	151.9	10.5	0	3.8	0
1991	0	0	0	0	253.7	189	326.5	0	0	0	0	0	0
1992	0	0	0	120.3	269.3	297.4	56.8	78.1	60.5	10	0	0.3	0
1993	0	0	0	233.3	148	173	64	22	32.3	9.5	17.5	0	0
1994	0	0	0	94.7	137.8	143.1	393.1	15.7	69	21.1	7	16	0
1995	12.2	0	0	41.5	32.6	187.6	163.4	80	41.2	8.2	3.2	0	0
1996	0	0	0	25.4	0	31.2	7.5	62.7	3.8	2.5	3	5	0
1997	0	0	0	39.5	177.2	780.6	124	202.9	232	90.2	-	22	0
1998	-	27.9	4.9	107.6	17.8	49.8	-	-	54.4	-	-	-	-
1999	-	-	7.8	39.3	54	121.2	48.5	186.2	195.6	36.5	-	-	-

2000	-	29.5	-	39.7	23.3	295.4	111	2	154	-	26	-
2001	-	-	6.9	77.5	106.3	45	450.7	215	12.5	28.2	-	-
2002	-	-	15	45.5	165.4	115	260	306.6	71.6	5	-	5.5
2003	104	-	-	-	84	-	82	27	66.6	-	48	-
2004	-	-	5	45.2	80.4	45.9	50.3	33.7	-	-	-	-

**Tabla A. 55. San Jose de Maipo DMC.**

1913	0	0	10	38	209	292	18.9	112	0	62.8	4	0
1914	9.7	3.5	3.3	24	-	-	-	-	-	-	-	-
1915	0	0	0	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	10.3	53.5	88	86	50.1	58.6	158.5	0	78.7	8.2
1919	2.7	0	2	139.6	347.4	203.4	254	61.5	66	12.5	9	0
1920	0	0	0	0	218.7	239.5	-	-	3.5	16	12	32
1921	0	0	12	16	455.2	97.1	0	106	18	14	0	0
1922	3.5	0	12	0	39	266	68	105	53	72	0	0
1923	2	0	0	0	4	110	186	105	4	77.7	4	0
1924	0	0	22	1	0	22	14	24	22	0	0	0
1925	0	6	0	10	42	19	71	23	298	6	0	0
1926	23	0	2	0	71	631	418	53	5	0	0	0
1927	0	16	7	1	202	127	186	63	124	20	3	0
1928	0	0	0	28	131	214	25	12	0	0	0	0
1929	26	0	0	0	94	78	25	275	36	1	0	19
1930	0	0	1	45	57	168	197	195	38	174	40	3
1931	10	0	0	55	39	111	225	81	80	0	50	0
1932	0	5	0	11	56	114	182	141	13	23	0	70
1933	90	41	0	0	122	173	46	138	28	11	0	0
1934	0	0	38	0	483	293	12	14	18	32	7	0
1935	0	0	0	1	29	107	61	40	30	41	0	0
1936	0	0	0	39	216	96	78	79	45	1	0	8
1937	0	0	0	0	102	83	210	142	27	13	16	0
1938	0	8	39	15	84	43	53	2	6	12	0	0
1939	7	0	0	0	112	119	37	69	3	61	5	39
1940	1	22	0	24	77	114	236	30	44	46	13	0
1941	0	0	34	255	145	156	353	325	12	51	76	0
1942	0	0	0	1	76	146	97	201	21	9	50	0
1943	0	0	39	3	70	62	71	58	45	25	0	1
1944	10	40	0	16	84	258	30	311	7	64	0	0
1945	0	83.5	0	44	3.5	3.9	67.2	32.9	60	6.8	6.4	0
1946	5.5	0	0	8.2	75	39	68.1	23	11.3	23.5	0	0
1947	0	0	2	2	40.7	190.7	37.6	101.5	0	9	3.5	0
1948	0	0	8	57.4	88.8	58.4	316	29	99.7	6.5	0	0
1949	0	0	14.7	0	326	59.2	14.6	48.6	6.2	0	0	3.8
1950	0	0	7.3	22.6	257.7	24.4	0	83.5	79.9	19.9	55.9	0
1951	0	0	0	15	125.8	139.1	205.9	20.6	58.1	0	6	0
1952	0	10	0.5	0	186.6	158	52	43	69	60	10	0
1953	0	0	3	27	193	72	151	391	200.7	41.4	0	0
1954	0	0.2	0	55.2	108.3	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	-	-	-	-
1968	-	-	-	-	-	-	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-

1973	-	-	-	-	-	-	-	-	-	-	-	-	-
1974	-	0	0	0	152	318	-	50	31.5	0	-	-	-
1975	0	0	8	-	54	30	50	98	0	0	-	23.5	-
1976	0	0	0	3	43	72	25	26	67.5	-	18	-	-
1977	-	-	-	-	-	-	276	77.5	2	51.5	35	8	-
1978	2	-	0	0	36	89.5	453	24	52	7	105.5	2	-
1979	0	0	0	20	62.5	6.5	120	120.5	71	0	68	31	-
1980	0	34	0	128.5	110	111.5	128.5	17	70	0	0	0	-
1981	0	6.5	4	10	257	21	30	30	21	22.5	1	0	-
1982	0	0	13.5	0	149	599.5	129	103	86.5	53.5	4	0	-
1983	33	4	0	49.5	51.5	122	133.5	38	49	0	0	0	-
1984	0	0	0	22.5	81	57.8	256	40	70	29	10	0	-
1985	6.5	0	38.5	7.5	65	11.5	134.2	22.3	16.5	63	0	0	-
1986	0	8.5	0	29	192.8	261.1	2.5	92.3	9	15	33.5	0	-
1987	0	0	8.5	1	84	60.5	456	306	48	71.5	0	0	-
1988	0	0	2	0	25	12	67.5	108	15	0	5	3.5	-
1989	0	0	0	55.5	44.5	26	110	163.5	43.5	0	0	0	-
1990	0	0	0	22.5	22	6.5	13.6	75	82.5	9	0	0	-
1991	0	0	0	34	154	154	198.5	9.5	88	47	1	68.5	-
1992	0	0	7.5	84.5	157.5	169.5	54.5	53	37	2.5	17	0	-
1993	3.5	0	0	126	212	30.5	62.5	27	25.5	8.5	5	0	-
1994	0	0	0	38.5	80.5	50.5	203.5	20.5	34.5	14.5	2	0	-
1995	5.5	9.5	0	32	16.5	96.8	60	74	38	2.5	0	0	-
1996	7	0	0	53	8	49	33	51	0	3.5	0	8.5	-
1997	0	0	0	3.5	116	442	70.5	122	120.5	80	17.5	23	-
1998	-	12	3	67.5	18	32.5	-	-	18	-	-	-	-
1999	-	-	8.5	37.5	25	59.5	22.5	101	103.5	19	-	3.5	-
2000	-	19	-	38.5	26	479.5	46.5	4	123	1.5	5	-	-
2001	-	-	18	34.5	59	10	281	109	-	19	-	-	-
2002	-	-	12.5	18.5	214	278.5	124	178	49	9	3	2.5	-
2003	20.5	-	1	-	59.5	84	107	3.5	39.5	-	29	-	-
2004	-	6.5	14	49	-	57.5	81.5	67.5	54	17	96.5	-	-

**Tabla A. 56. Santiago Quinta Normal.**

1866	0	0	0	10	45	50	49	47	14	5	0	0	-
1867	0	0	0	3	31	80	94	18	0	0	7	6	-
1868	0	0	0	23	17	74	143	54	250	28	0	9	-
1869	0	0	12	0	44	7	42	31	13	9	0	0	-
1870	0	0	5	0	23	113	51	3	1	9	0	0	-
1871	0	18	21	13	54	58	69	27	35	6	0	0	-
1872	0	0	3	0	44	37	7	45	22	0	0	0	-
1873	0	2	0	11	26	39	85	93	33	0	0	6	-
1874	0	0	2	0	46	91	12	13	35	17	47	0	-
1875	1	17	0	0	109	17	30	0	0	0	50	60	-
1876	0	0	14	9	38	21	16	42	19	41	3	0	-
1877	2	1	0	131	50	24	264	12	99	69	0	0	-
1878	4	11	25	111	92	73	47	24	11	0	4	0	-
1879	0	0	0	0	36	74	22	31	0	3	0	0	-
1880	0	2	1	8	29	235	269	89	8	10	2	0	-
1881	6	0	0	25	62	87	91	63	74	20	13	0	-
1882	0	2	0	0	40	33	160	55	9	0	5	0	-
1883	12	0	0	0	120	84	46	12	77	15	0	0	-
1884	0	0	27	32	6	62	49	117	31	9	7	47	-
1885	0	1	0	3	160	4	109	47	48	24	1	0	-
1886	0	0	0	1	4	160	3	278	59	29	16	0	-
1887	0	0	0	1	4	160	3	278	59	29	16	0	-
1888	0	0	0	15	27	127	159	212	93	41	19	0	-
1889	2	0	0	6	45	21	102	48	1	3	0	2	-
1890	2	0	2	39	5	38	63	48	24	1	0	0	-
1891	0	0	0	24	117	149	227	6	0	85	3	3	-
1892	0	0	0	0	9	12	25	49	4	7	17	0	-
1893	0	0	0	4	58	52	58	28	1	0	25	12	-
1894	1	0	15	12	56	39	27	52	15	1	24	0	-
1895	0	0	19	11	1	9	42	150	46	10	5	0	-
1896	0	0	1	2	1	32	103	49	69	6	0	0	-
1897	2	0	5	0	206	45	52	20	10	15	0	0	-
1898	0	0	0	46	30	243	66	42	23	30	16	2	-

1899	0	0	1	0	36	235	161	313	17	10	0	0
1900	0	1	22	2	123	130	353	109	19	61	0	0
1901	0	0	5	1	71	110	68	109	0	20	0	0
1902	0	5	5	1	105	150	187	18	8	6	21	0
1903	0	0	1	21	27	99	38	1	1	6	0	0
1904	0	1	36	6	232	78	172	74	21	16	3	48
1905	0	0	3	2	156	186	180	56	22	8	0	3
1906	1	8	0	1	112	41	36	88	7	0	0	0
1907	0	1	0	17	56	80	34	21	45	9	0	5
1908	1	1	0	42	30	83	9	31	5	0	0	0
1909	0	0	0	2	11	89	22	21	32	4	0	3
1910	0	0	10	16	1	158	36	32	1	3	8	5
1911	0	0	0	26	21	45	30	12	16	0	0	20
1912	0	0	0	5	98	124	3	50	8	2	1	0
1913	0	0	0	4	39	15	121	43	44	1	0	0
1914	0	0	0	6.4	58.3	205.5	125	74.1	102.1	71.7	57.4	0
1915	0.1	3.5	1.3	21.3	110.4	77.3	9.1	9.3	2.1	2.1	0.3	0
1916	5.9	0	15.9	7.3	22.4	6.1	86.1	33	23.8	1.1	22.8	0.9
1917	0	0	0.5	16.3	30.4	95.7	3.2	14.8	42.3	0.4	0.2	0
1918	0	0	5.2	26	35	65.6	24.3	22.2	167.7	6.6	24.2	0
1919	1	0	0	55	221	183	144	18	20	4	3	0
1920	0	0	0	0	101	81	48	24	1	5	7	23
1921	0	0	0	15	248	95	1	52	22	2	0	0
1922	0	0	3	0	24	216	53	86	39	27	1	0
1923	0	0	0	0	7	72	98	79	13	32	5	0
1924	0	0	13	1	0	16	10	11	12	3	0	0
1925	0	0	0	2	25	8	72	1	139	11	1	0
1926	0	0	3	0	35	433	234	44	8	3	0	0
1927	0	1	0	1	77	111	112	29	68	6	1	0
1928	0	1	0	32	97	159	36	4	10	1	0	0
1929	18	0	0	0	44	46	20	162	36	13	0	16
1930	0	0	3	18	15	90	95	151	12	102	14	0
1931	11	0	0	7	20	47	101	63	44	0	27	0
1932	0	1	0	7	43	66	91	106	20	1	0	16
1933	41	16	0	0	65	82	31	55	21	5	0	0
1934	0	0	1	0	268	146	30	9	14	44	8	0
1935	0	0	0	3	22	86	37	29	30	45	0	0
1936	0	0	0	17	134	65	76	62	11	0	2	12
1937	0	0	0	0	42	69	93	71	49	17	4	0
1938	0	10	29	9	46	59	30	1	1	12	6	0
1939	3	0	0	0	71	89	15	39	18	41	2	45
1940	0	14	0	18	18	84	148	21	23	4	10	0
1941	0	0	11	86	100	120	167	145	9	12	24	0
1942	0	0	0	0	0	33	95	84	117	16	15	41
1943	1	0	27	6	31	25	31	32	27	25	0	0
1944	19	21	1	13	65	136	21	173	2	43	0	0
1945	0	84.5	0	21.2	5.3	0	36.8	72.3	27.1	0	0	0
1946	0	0	0	11.1	13.9	28.7	38.5	25.7	1	8.4	0	0
1947	0	0	0.6	2.7	22.7	110.8	31.2	63	3	19.3	0	0
1948	0	0	3.8	47.1	80.2	32.4	164.7	11.5	21.1	7.1	0	0
1949	0	0	12.2	0	185.1	46	21.6	39.3	2.2	0.1	0	0
1950	0	0	1	77.2	80.9	16.8	0.1	45.1	39.3	10.1	22.2	0
1951	0	0	0	19.6	81.1	65.2	106.1	12.9	35.9	0	2	0.1
1952	0	2.5	0	0	98.4	102.4	39.7	27.9	41	14.8	7.7	0
1953	6.4	0	0.9	38.6	70.8	38.4	101.7	198.7	112.7	14.8	0	0
1954	0	0.9	0	60.7	67.9	85.2	71.1	13.5	12	4.9	0	0
1955	0	0	0.5	13.5	44.8	53	21.1	20.6	5.3	33.1	1.5	0.5
1956	5.5	0	39.8	12.9	37.3	4.9	64.3	76.9	14.2	4.4	2.8	1
1957	1	0.1	0	2.2	161.3	23.4	43.5	42.2	15.8	0.2	0	19.7
1958	0	0	0.2	0	98.4	107.8	22.7	90.8	7.2	1.3	7.4	0
1959	0	0	18.2	59.5	58	79.2	45.2	41.8	11.3	6	0	0
1960	0	0	0	0	21.2	89	54.3	21.1	5.3	3	0	0
1961	1.2	0	13	0	21.7	74.4	16.7	67.7	32.3	26.4	0.5	7
1962	0	0	0	0.4	12.9	149.9	14.1	32.1	6	11.2	0	0
1963	0.2	0	4.4	0.4	27.1	34.1	146.5	104.7	108	24.3	5.8	0
1964	0	0	0.2	0.9	0.2	83.7	35.6	61.3	0.3	0.2	0	4.1
1965	0	0	0	36.4	33.3	14.7	130.8	159.4	3.6	18.1	3.6	13.8
1966	0	0	0	35.3	6.6	133.1	103.6	45.1	0.7	6.1	20	13.6

1967	0	0	0	1.3	12.4	36.2	55.2	20	30.7	17	0	0
1968	0	0	0	14	0	7.8	4.6	9.9	32.7	0	0.2	0
1969	0	0	0	19.9	22.5	62.6	22.1	45.8	1.6	2	0.8	0
1970	0	0	0	0	75.8	32.3	164.9	6.9	21.6	25.1	0	0
1971	1.6	0	0	2.2	33	131.4	30	30.8	5.7	11.3	0	1.1
1972	0	0	2.2	4	125.7	174.3	52.6	150.4	55.7	11	4.4	0
1973	0	0	0	4	17.4	32.1	77.2	0.7	6	34.4	0.2	0
1974	0	0	0	0	100.8	228.1	35.3	14.1	22	0	17.7	0
1975	0	0	0	14.9	18.3	2.2	111.4	20.1	1.1	0	15.3	0
1976	0	0.8	5.8	1.6	18.4	51.9	6.5	34.8	16.5	51	13.2	0
1977	0	0	0	20.5	28.9	123.1	121.4	48.2	1.5	21.1	31	0
1978	0	0	0	0	19.1	54.5	222.3	14.9	26.1	0.4	82.5	1
1979	0	0	0	6	12.6	0.7	91.9	29.7	33.9	0	26	12.7
1980	0.6	21.2	0	48.6	44.9	60.3	63.9	14.1	61.8	0.2	5.2	0
1981	0	3.8	6.9	0.7	183	20	30	11	14.5	11.5	0.5	0
1982	0	0	29.4	0.1	108.3	273.4	110.8	55.6	48.2	14.5	0	0
1983	8.2	0.1	0	30.6	45.3	93.1	90.6	38.3	42.9	0	0	0
1984	0	0	1.1	1.3	71.9	37.9	224.4	59	23.6	18.4	4.3	0
1985	0.2	0	27.2	0.2	37.2	19.7	67.6	7.7	6.5	19.7	0	0
1986	0	0	0	26.1	90	108.3	0.6	53.9	3.1	3.4	25.9	0
1987	0	0.2	0.1	10.5	46.4	36.7	355	182.3	16.2	64.8	0	0
1988	0	0	6	0	5	12	33.1	52.7	10.2	0	16.6	4
1989	0	0	0	38.2	25	17.7	95.1	108.7	15.5	1.9	0.4	0
1990	0	0	11.9	1.1	6.4	1.6	75.1	70.3	23.4	15.7	0	0.3
1991	0	0	0	1.9	72.2	112.6	94.7	3.2	52.5	13.7	0	28.8
1992	0	0.5	13.2	41	128.5	170.3	23.3	57.7	20.7	0	7.8	0
1993	0	0	0	101.7	80.2	34.7	52.2	30.7	7.1	7.6	2.3	0.2
1994	0	0	0	19.3	44.5	44.5	82.7	16.5	17.6	3.5	0	7.4
1995	0.6	0	0	18.7	8.6	47.2	54.8	36.4	19.6	0.6	0.1	0
1996	1.8	0	0	54	14.7	31.7	25.2	29.8	2.2	3.7	0	0.9
1997	0	0	13.5	0.5	126.1	259	60.2	98.9	85.5	60.2	3.6	1.9
1998	0	4.3	0	32.7	13.8	22.6	0.2	0.6	15.1	-	0	-
1999	-	0.1	19.7	12.9	0.9	31.2	43.4	109.9	100.1	23.6	-	1.4
2000	-	14.7	-	17.6	20	261.5	28.5	0.5	116.5	13.6	1	-
2001	-	-	9.9	16.1	32.3	0.3	186.6	50.2	15.8	0.7	0	-
2002	0	-	1.7	13.6	137.9	247.5	92.3	74.2	28.3	4	0	1.3
2003	5	-	0.2	-	79.7	31.5	73.4	6.9	14.5	0	13.7	-
2004	0	0	18.7	39.2	16.4	44.1	95.2	55.9	23.7	1.7	58.9	-
2005	0	0	22.3	-	-	-	-	-	-	-	-	-

**Tabla A. 57. Santo Domingo**

1968	0	0	3.2	10	0	24.4	8.6	37	24.2	0.4	0	0.1
1969	0.2	0	0	41.5	41.9	143.9	44.9	43	0	1.6	5.9	0.3
1970	0	0	0	0	56.9	53.3	156.7	2.1	29.3	17.9	0	0
1971	0	0.2	0.7	40.5	6.2	-	-	-	-	-	-	-
1972	-	-	-	3.8	162.6	-	-	-	-	-	-	-
1973	0	0	0	0.7	75.6	47.4	134.4	3.6	0	71.4	0	0
1974	0	0	0	0	197.3	210.3	27.7	21.8	49.1	0.3	22.8	1.6
1975	-	0	0	30.5	-	-	-	29.9	0.9	0	18.3	0
1976	0	0	4.1	0	33	65.2	28	28.5	25.3	95.1	39.5	0
1977	3	0	0	14.1	25.8	144.4	-	-	-	-	-	-
1978	0	0	0	0	30.4	96.4	236.8	15.7	74	0	44.7	0
1979	0	0	0	39	48.7	0	220.6	42.5	60	0	28.6	32.5
1980	0	0.6	2.4	171.3	153.7	144.2	143.3	11.1	62.1	0	0	0
1981	0	0	1.4	13.9	227.7	51.5	45.6	16.3	-	-	0	-
1982	-	-	34	0.5	199.2	266.6	144	96.4	66	13.6	0	0
1983	-	-	-	14.7	49.3	126	89.3	91.1	-	-	0.1	-
1984	0	0	0	7.3	196.8	37.3	329.8	115	-	27.4	1	0
1985	-	-	5.3	3	57.7	-	-	-	-	-	-	-
1986	-	-	-	96.9	205.7	178.8	4.8	97.8	6.7	1.8	54.8	0
1987	0	0	0.6	13.7	64.8	35.4	460	150	32.8	26.3	-	0
1988	0.9	1	9.8	2.7	0.5	45.9	73.9	99	14.2	0	14.4	0
1989	0	0	0	0	32.1	40.9	126.2	75.9	9.1	7.4	0.2	2.6
1990	0	0	41.3	2.2	8.4	3.5	63.2	30.3	53.8	32.5	1.7	0.7
1991	0	0	0.5	34.6	106.6	190.3	80.3	19.3	147.2	25.6	0.2	26.5
1992	0.9	0.6	17.9	35.8	254.5	319.3	11.7	142.3	30	1.4	2.9	0.4
1993	1.3	0.2	2.4	9.5	90.2	77.4	84.9	28.6	4.8	6.6	4.9	3.9

1994	0.3	0	0.6	60.9	56.1	66.6	87.2	5	27	25.9	0.7	6.7
1995	0	0	-	71.8	0.5	115.5	129.1	53.5	9.5	11.3	2	0
1996	0	0	0	18.6	14.8	61.6	-	98.8	0.3	-	1.3	3.9
1997	-	-	-	-	156.9	347	56.1	148.2	90.8	100.5	19.5	-
1998	-	-	-	15.6	26.2	5.2	-	-	16.8	-	-	-
1999	0.3	1.2	13.5	1.9	37.6	61.1	37.9	62.8	132.3	1.7	0	-
2000	-	23.4	-	3.5	15	364.6	14.7	0.3	171.7	0.3	0	0.1
2001	-	1.3	0.4	36.5	136	6.7	315.8	112.9	11.9	0.4	0.1	0
2002	-	0.3	20.3	10.3	257.7	145.2	144.7	189.6	33.8	5.4	0	0
2003	1	0	0.9	0.1	109	89.5	57.6	15.1	94.1	6.5	28.6	0.1
2004	-	-	9	54.3	21.1	88	152.3	101.8	20.4	13.6	39.7	-

**Tabla A. 58. Tobaraba.**

1946	0	0	0	10.2	12.8	21.4	46	20.4	0	18.5	0	0
1947	0	0	0	1	30	108.5	34.7	57.2	2.9	26.1	0	0
1948	0	0	3.5	48.9	71.3	28.5	186.1	16.2	41.8	7.5	0	0
1949	0	0	8.7	0	183	47.7	23.8	46.4	4.7	0	0	0
1950	0	0	1.7	66.7	76.7	20.4	0	51.3	49.8	23.2	0	38.8
1951	0	0	0	14.4	109.2	83.2	129.1	31.1	72.6	0	3.2	1.1
1952	0	4.8	0	0	109.4	141.5	43.5	28.6	58.3	22.8	8	0.6
1953	3.9	0	0.9	46.6	113.2	74.4	130.4	245.9	125.2	32.3	0	0
1954	0	3.8	0	84.1	100.2	120.4	78.7	24.1	17.5	6.7	0	0.8
1955	0	0	3	23.5	59.5	75.7	30.5	31.8	11.7	53.6	0	0.7
1956	9.4	0	81.7	21.6	45.6	4.7	57.3	111.7	11.8	6.3	11	7.8
1957	0	0	0	2.9	181.4	42.6	51.7	48.5	25.8	2.5	1.1	30.4
1958	0	0	5.1	0	126.8	141.7	32.6	125.5	18.9	4.8	13.4	0
1959	0	0.8	7.6	45.2	68.3	108.7	52.4	74.8	30.2	23.7	0	0
1960	0	0	0	0	0.4	46.6	84.8	74.2	29.3	11.7	2.7	0
1961	0	0	22.7	0	39.1	133.1	25.9	86.1	66.1	30.5	0.0305	7.4
1962	0	0	0	0	37.3	216	23.8	48.6	12.5	37.2	0	1.4
1963	0	0	7.5	4.3	21	55.3	178.2	131	137.6	47.4	17.4	0
1964	0	0	0	0.7	0	111.7	48	60.5	0	6.1	0	7.8
1965	0	0	0	23.6	37.4	12.7	175.9	219.3	25.6	20.4	2.2	0
1966	0	0	0	44.8	6.3	152.2	110.8	68.5	-	10.5	24.7	27.7
1967	0	0	0	-	14	-	37.8	26.1	47.3	30.8	0	0
1968	0	0	2.4	15.5	0	5	5.4	26.7	43.7	0	4.4	0
1969	0	0	0	21	28.3	63.9	42.6	51.6	11	3.5	0	0
1970	0	0	0	0	68.4	39.4	123.2	22.8	42.3	73	0	0
1971	0.4	0	-	-	10	-	-	42.9	10.8	11.1	0	4.3
1972	0	0	0	0	108.6	160.7	69.3	126.5	60.7	19.1	13.7	0
1973	0	0	0	2.4	19.2	36.2	96.7	0	0	37.3	0	0
1974	0	0	0	0	54.2	213	14.3	48.9	18.1	0	13	0
1975	0	0	0	30.2	27.3	0	127.7	28.1	2.5	0.1	23	0
1976	0	0	7.7	2.6	24.2	41.4	2.5	33.6	23.8	61.7	22.6	0
1977	0	0	0	12.3	35.1	136.5	120.9	37.1	3.8	13.9	14.8	0
1978	2	0	0	0	17	55	236.8	24.6	35.9	3.3	76.9	2.6
1979	0	0	0	10.8	32.1	1.6	38.6	62.6	40	0	33	26.7
1980	0	25	0	65.6	45.9	56	88.3	20.9	86.8	0.8	6.9	0
1981	0	0	7.6	0	135	10.8	29.2	20.4	7.8	24.5	0	0
1982	0	0	21	0	117	327.1	118.1	91.8	43.2	45.4	4	0
1983	-	-	-	-	0	-	90.9	44.6	44.6	3	0	0.3
1984	0	0	1.6	6	500.3	29.9	231.9	51	43.5	32.2	11.2	0
1985	5	0	27.6	1.6	59.8	14.8	49.2	23.5	20	17.7	0	0
1986	0	0	0	21.3	118.5	108.6	0.5	51.9	9.4	8.8	1.5	0
1987	0	0.9	1.6	1.6	35.6	0.09	307.4	184	19.1	48.4	0	0
1988	0	0	2.8	0	3.8	6.2	33.8	79.8	9.1	0	16	0
1989	0	0	0	40.9	29.1	22.9	82.4	167	20.3	0	1.2	0
1990	0	0	17.1	8.8	10.5	3.3	71.2	84.6	21.8	15.4	0	0
1991	0	0	0	1.1	64.6	90.2	98	5	53.9	12.6	0	24.9
1992	0	0	10	50.1	141	136.3	15.7	55.3	21.8	0	1.6	0
1993	0.8	0	0	98.1	115.4	32.8	71.4	26.7	10.4	25	2.8	0
1994	0	0	0	15.5	35.5	33.9	112.3	12.9	27.6	7	4.1	5.5
1995	0	1.3	0	20.9	9.1	67.6	53.8	36.8	31	0	0	0
1996	0.4	0	0	47.5	6.8	45.4	6.2	38.7	0	0	0	0.9
1997	0	0	29	1	113.1	303.4	73.5	103.1	70.3	42.3	8.3	33.8
1998	0	1.6	0	43.5	24	31.3	0	2	1.4	-	-	-
1999	0.5	1	11.7	14.6	2.8	37.4	40.9	135.5	128.5	21.5	-	1.5

2000	-	21.7	-	20.6	23.6	350.9	34.4	0	116.8	13.9	-	-
2001	-	-	10.1	29.3	51.2	4.8	198.7	61.8	41.5	6.5	0.5	-
2002	-	-	6.8	19.8	155.1	219.3	95.3	114.4	28.1	3.5	0.6	0.5
2003	-	-	-	-	-	18.3	66.9	-	18	-	-	-
2004	-	-	-	-	-	35.8	27.9	57.4	40.1	3.5	68.8	-

**Tabla A. 59. Valle Hermoso.**

1957	0	0	1	0	173.1	10.9	20.4	15.8	18.8	1	0	12.3
1958	0	0	0	0	86.8	65	27.3	72.5	5	0	7.2	0
1959	0	0	7.8	47.5	47.7	73.9	47.7	50.7	6.7	9	0	0
1960	0	0	0	0	25.3	72.1	62	11.9	5	2.8	0	0
1961	0	0	13.4	0	23.8	70.7	13.4	50.9	24.6	20.5	0	4.2
1962	0	0	0	0	17.4	117.2	12.7	27.6	3.5	15.7	0	0
1963	0	0	4.5	2	17.9	26.8	120.2	82.9	105.9	19.4	4.8	0
1964	0	0	0	0	0	69.7	27.1	43.6	0	0	0	0
1965	0	0	0	14.3	27.4	9.6	130.7	131	7	9.4	0	12.5
1966	0	0	0	27.1	5.5	124.3	75.7	39.9	0	5.4	17.5	16
1967	0	0	0	2.2	13	43	36	3	33	20	0	0
1968	0	0	0	11.7	0	6.7	4.7	16	26.8	0	0	0
1969	0	0	0	11.3	9.1	39	21.2	31.5	0.2	0.8	0	0
1970	0	0	0	0	62.3	27.7	107.1	12.4	14.8	19.4	0	0
1971	0	0	0	3.3	20	103.1	20	35	6	6	0	0
1972	0	0	0	4	94.5	174.6	55.8	148.1	34.5	8.5	14	0
1973	0	0	0	0	16	27.5	75.5	0	11	28.5	0	0
1974	0	0	0	0	95	196.9	14.7	16.5	17	0	10	0
1975	0	0	0	27.5	21	1	104.5	22.5	0	0	20	0
1976	0	0	6	1.5	14	41.5	5	31.1	19	33.1	10.3	0
1977	0	0	0	9	29.5	114.4	112.1	40.7	4.5	12	28	0
1978	0.1	0	0	0	8.5	48.7	152.7	14.5	21.7	1.5	66.9	2.5
1979	0	0	0	10	7	0	63.2	35.7	29.7	0	26.7	10.7
1980	0	13	0	53.7	23.5	68.4	74.8	29.6	71	0	3.5	0
1981	0	6.5	8.5	1	186.9	20.5	38	17	18.5	12	0	0
1982	0	0	16.5	0	106	264.5	113.8	75.1	41.6	21.3	0	0
1983	8.5	1.5	0	27	50.6	93	84.5	42.9	41	1	0	0
1984	0	0	4	1	36.5	31.7	223.5	34.4	41.5	17.5	4	0
1985	0	0	23	0	43.8	13.5	66.5	13	3.7	23	0	0
1986	0	0	0	13	97.9	82.6	0.5	44.5	3.5	8.6	22	0
1987	0	0	0	7.5	44	32.1	380	170.5	14.5	27.1	0	0
1988	0	0	2.1	0	2.5	10.6	21.3	41	6.3	0	14.5	3.7
1989	0	0	0	28.6	26.7	19.2	76.3	98.6	11.3	0	0	0
1990	0	0	6.8	1.2	3.5	0	73.8	63	9.1	13.4	0	0
1991	0	0	0	3.2	47.8	133.9	78	4.8	42	12.4	0	7.1
1992	0	0	12.8	34.3	105.3	148	8.1	50.7	19.8	0	5.1	0
1993	0	0	0	86.3	61.3	20	40.2	28.8	3.6	3	0.4	0
1994	0	-	0	12.8	37.9	28.5	68.3	4.8	14.4	6.3	0	2.6
1995	0	0	0	16.3	6.7	41.4	42.8	25	22	0	0	0
1996	0	0	0	41.3	11.1	26.5	24.2	18.8	1.5	2.4	0	0
1997	0	0	11	0	114.3	232.2	54.7	95.4	59	53.9	-	-
1998	-	0	0	28.4	35.6	28.4	-	-	14	-	-	-