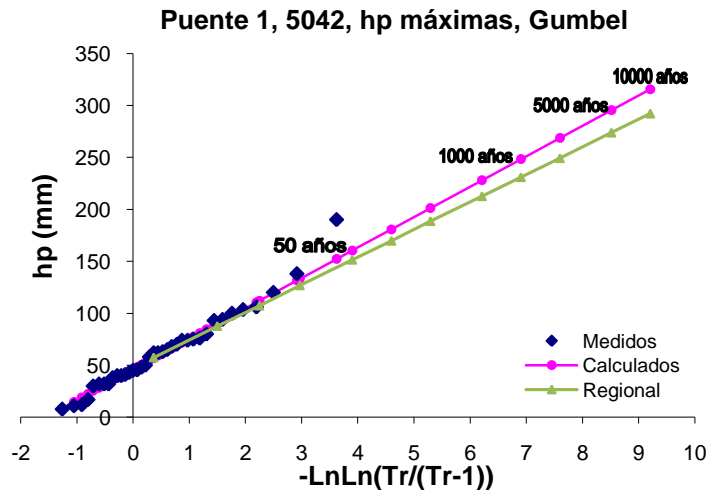


ANEXOS

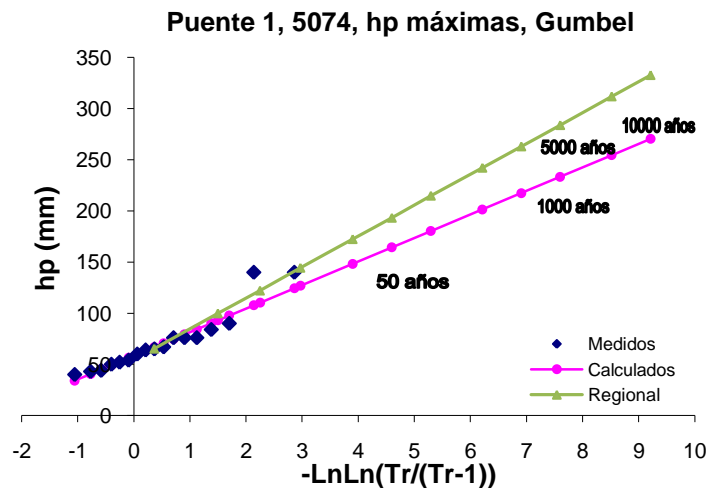
ANEXO A

En las tablas siguientes se presentan los resultados de la extrapolación de las precipitaciones máximas anuales para varios periodos de retorno de cada una de las estaciones consideradas para el análisis climatológico del Puente 1. Para cada estación también se presentan las gráficas de ajuste del análisis individual así como del resultado obtenido con la regionalización.

5042, Zaragoza, Zaragoza (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	56.97	57.45
5	90.13	87.75
10	112.09	107.32
20	133.16	126.89
50	160.42	151.51
100	180.85	169.82
200	201.21	188.76
500	228.06	212.75
1000	248.36	231.05
2000	268.65	249.36
5000	295.47	273.98
10000	315.75	292.29



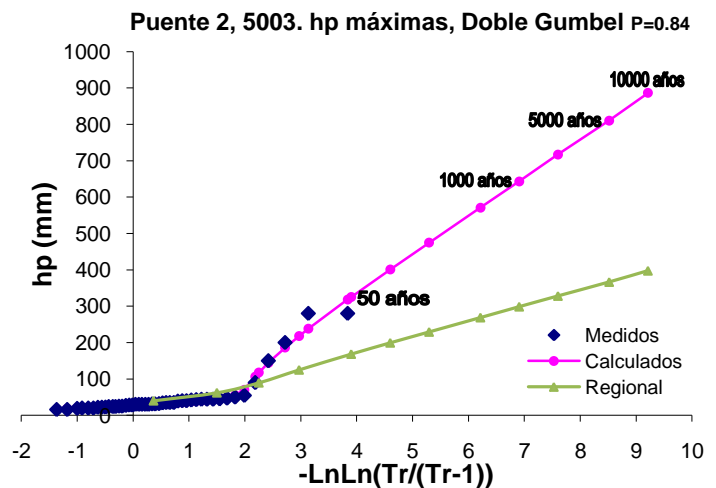
5074, Zaragoza, Zaragoza		
Tr (años)	hp individual (mm)	hp regional (mm)
2	66.98	65.36
5	93.03	99.83
10	110.28	122.10
20	126.83	144.37
50	148.24	172.38
100	164.29	193.21
200	180.28	214.75
500	201.37	242.05
1000	217.32	262.87
2000	233.25	283.70
5000	254.32	311.71
10000	270.25	332.54



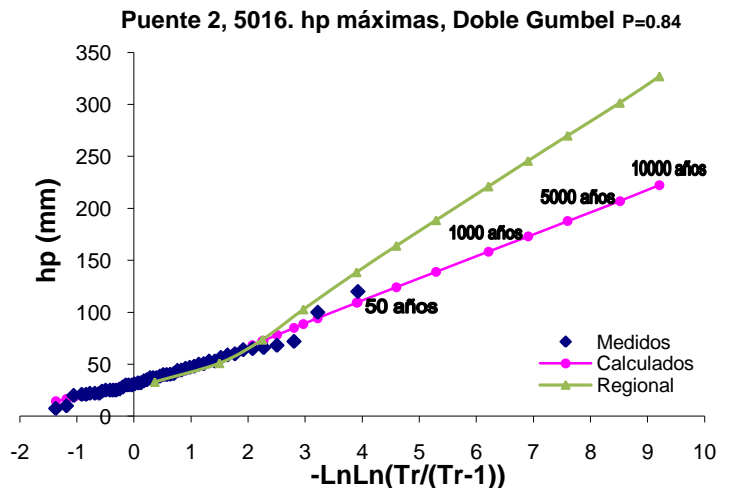
ANEXO B

En las tablas siguientes se presentan los resultados de la extrapolación de las precipitaciones máximas anuales para varios periodos de retorno de cada una de las estaciones consideradas para el análisis climatológico del Puente 2. Para cada estación también se presentan las gráficas de ajuste del análisis individual así como del resultado obtenido con la regionalización.

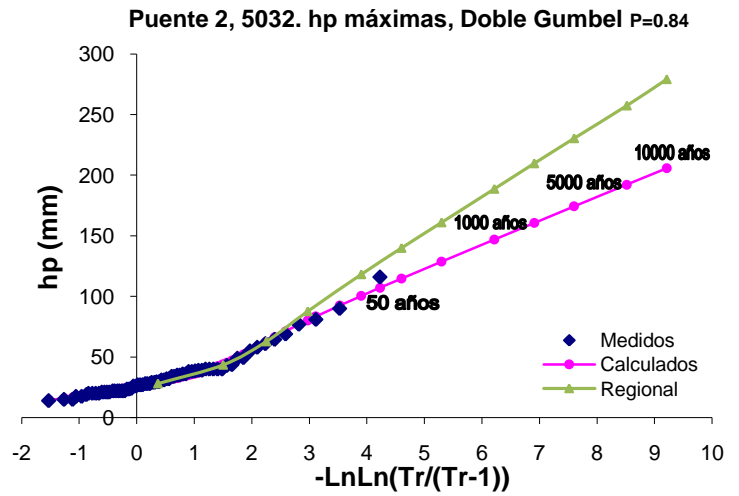
5003, Arteaga, Arteaga (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	40.25	39.97
5	92.54	61.96
10	127.16	89.44
20	160.37	124.92
50	203.35	168.39
100	235.57	199.37
200	267.66	229.35
500	310.00	268.82
1000	342.00	298.81
2000	373.99	328.29
5000	416.27	366.76
10000	448.25	397.74



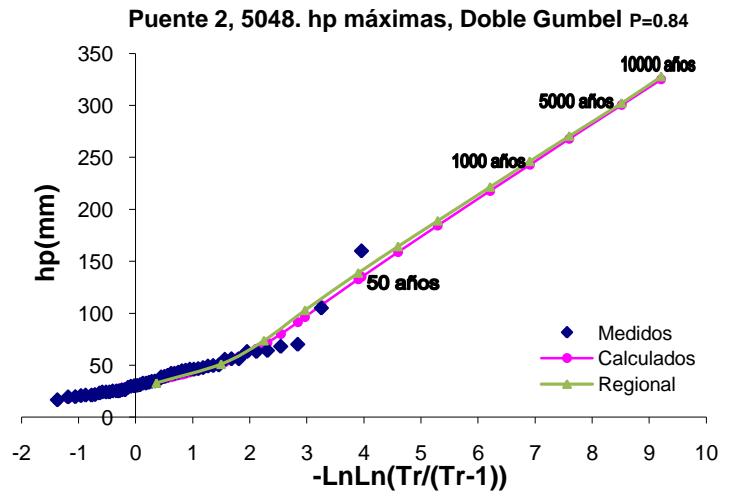
5016, Gral. Zepeda, Gral. Zepeda		
Tr (años)	hp individual (mm)	hp regional (mm)
2	35.95	32.88
5	55.49	50.96
10	72.23	73.56
20	88.64	102.74
50	109.14	138.49
100	124.14	163.97
200	138.96	188.62
500	158.35	221.09
1000	172.96	245.74
2000	187.68	269.99
5000	206.93	301.63
10000	222.33	327.11



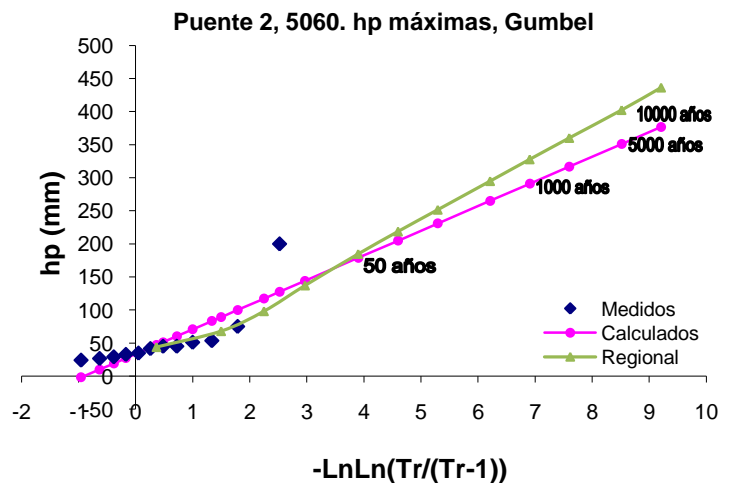
5032, Ramos Arizpe (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	29.33	28.05
5	44	43.48
10	62.54	62.76
20	80.2	87.65
50	100.35	118.16
100	114.65	139.90
200	128.62	160.93
500	146.85	188.63
1000	160.61	209.67
2000	174.37	230.36
5000	192.15	257.35
10000	205.7	279.09



5048, Saltillo, Saltillo (DGE)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	35.28	32.95
5	51.71	51.07
10	69.78	73.72
20	96.43	102.97
50	132.76	138.80
100	158.9	164.33
200	184.44	189.05
500	217.72	221.58
1000	242.9	246.30
2000	267.98	270.60
5000	300.39	302.31
10000	325.09	327.84

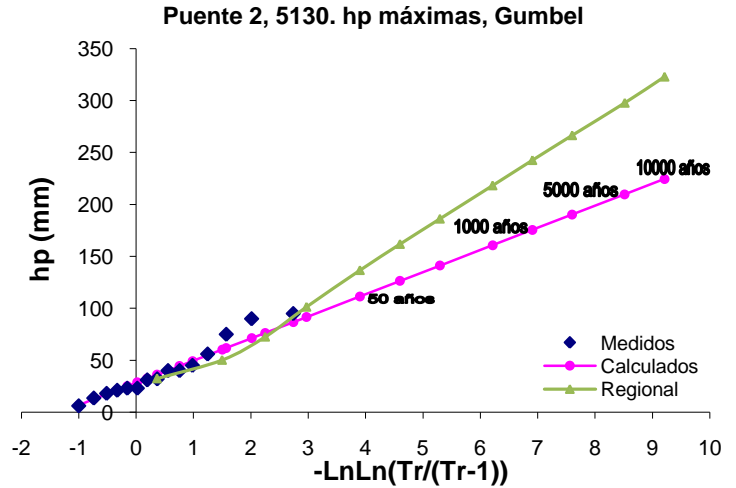


5060, Derramadero E.T.A. 10		
Tr (años)	hp individual (mm)	hp regional (mm)
2	46.97	43.86
5	89.25	67.98
10	117.25	98.14
20	144.11	137.06
50	178.87	184.76
100	204.92	218.75
200	230.87	251.65
500	265.11	294.96
1000	290.99	327.85
2000	316.86	360.20
5000	351.05	402.42
10000	376.91	436.41

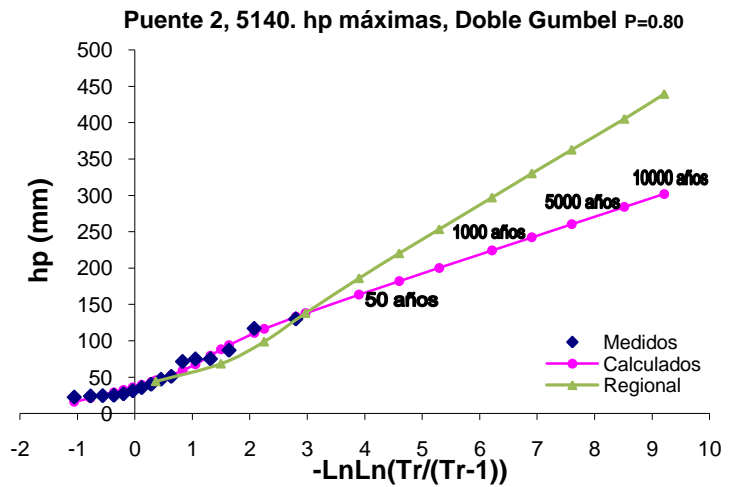


ANEXOS

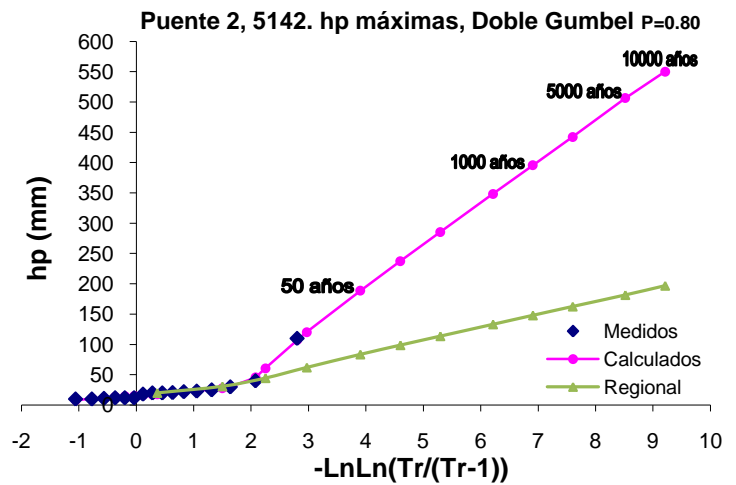
5130, C.E.F.Z.A. La Saucedera. R.A		
Tr (años)	hp individual (mm)	hp regional (mm)
2	36.08	32.45
5	60.23	50.30
10	76.22	72.61
20	91.55	101.42
50	111.4	136.71
100	126.28	161.86
200	141.1	186.20
500	160.65	218.25
1000	175.43	242.59
2000	190.2	266.52
5000	209.73	297.76
10000	224.5	322.91



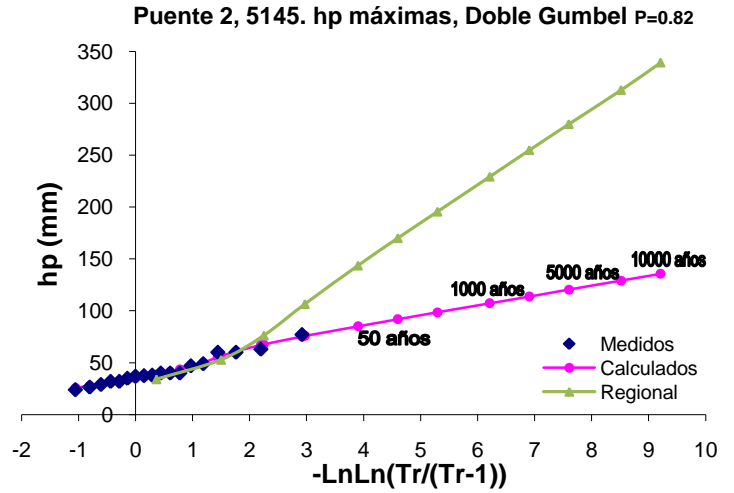
5140, Ramos Arizpe (DGE)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	45.51	44.17
5	88.16	68.46
10	116.3	98.83
20	137.9	138.03
50	163.48	186.07
100	181.99	220.30
200	200.23	253.43
500	224.11	297.04
1000	242.16	330.17
2000	260.2	362.75
5000	283.98	405.26
10000	301.88	439.49



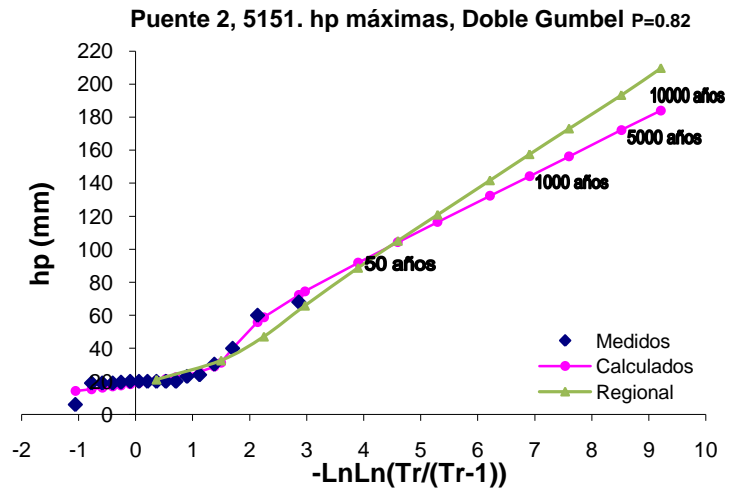
5142, Hipólito, Ramos Arizpe		
Tr (años)	hp individual (mm)	hp regional (mm)
2	17.87	19.78
5	27.78	30.65
10	60.48	44.25
20	120.16	61.80
50	188.47	83.30
100	237.41	98.63
200	285.41	113.46
500	348.31	132.99
1000	395.57	147.82
2000	442.47	162.40
5000	506.46	181.44
10000	550.09	196.76



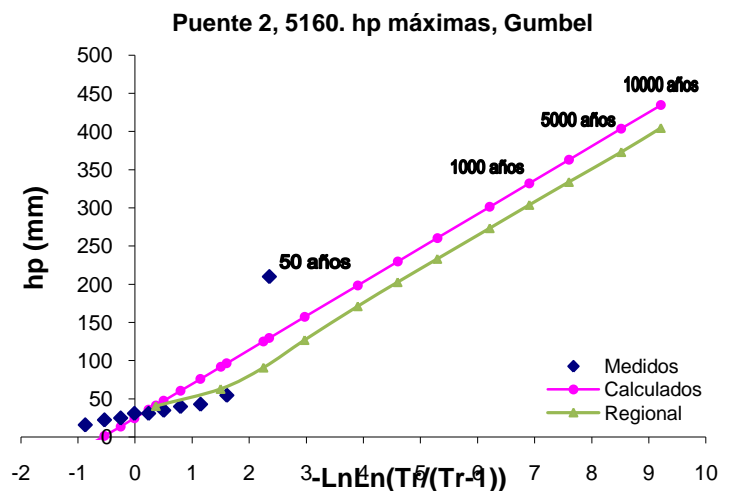
5145, S. Juan de la V.Saltillo		
Tr (años)	hp individual (mm)	hp regional (mm)
2	38.63	34.09
5	56.45	52.84
10	67.74	76.27
20	75.8	106.53
50	85.19	143.60
100	91.95	170.02
200	98.6	195.59
500	107.31	229.25
1000	113.85	254.81
2000	120.44	279.96
5000	129.09	312.77
10000	135.68	339.18



5151, Alto de Norias		
Tr (años)	hp individual (mm)	hp regional (mm)
2	20.56	21.08
5	31.35	32.67
10	58.84	47.16
20	74.49	65.87
50	91.92	88.79
100	104.32	105.12
200	116.45	120.93
500	132.34	141.75
1000	144.22	157.56
2000	156.19	173.10
5000	172.22	193.39
10000	184.01	209.72

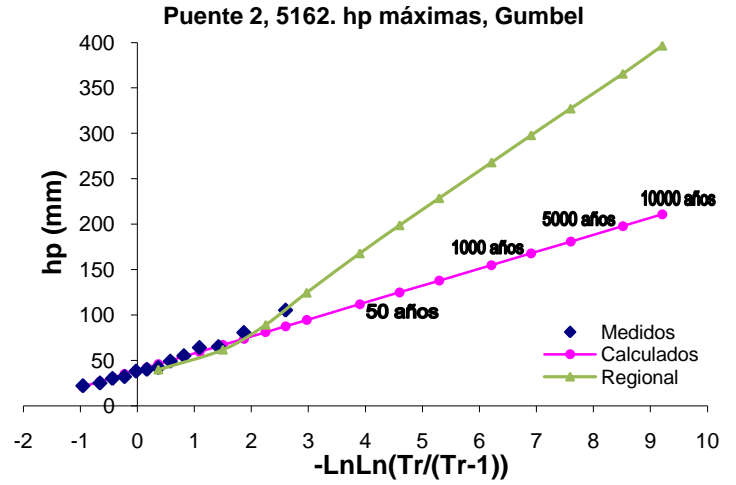


5160, Arteaga, Arteaga		
Tr (años)	hp individual (mm)	hp regional (mm)
2	41.46	40.66
5	91.84	63.02
10	125.2	90.97
20	157.19	127.05
50	198.61	171.26
100	229.64	202.77
200	260.57	233.26
500	301.36	273.41
1000	332.2	303.90
2000	363.02	333.89
5000	403.75	373.02
10000	434.57	404.53

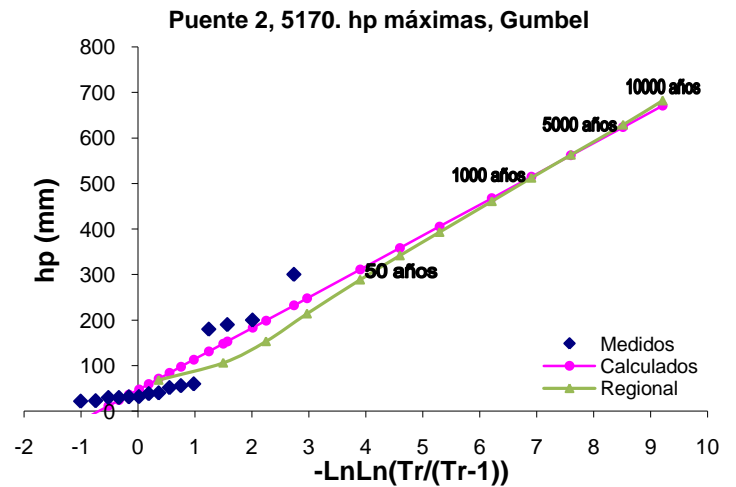


ANEXOS

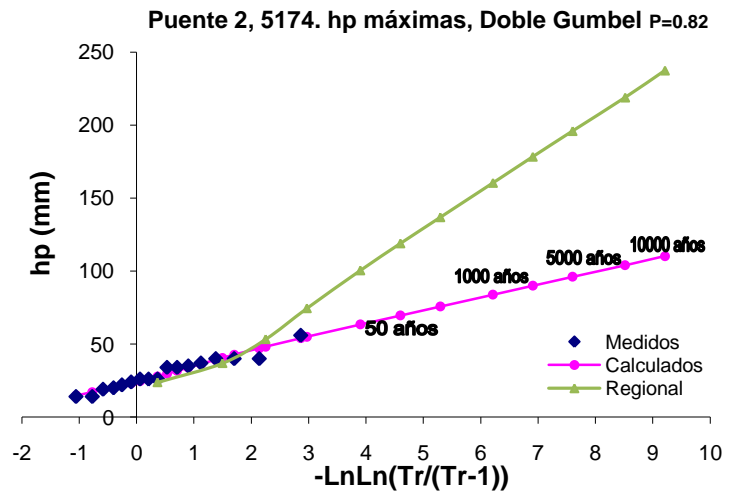
5162, Dos de Abril		
Tr (años)	hp individual (mm)	hp regional (mm)
2	45.9	39.86
5	67.03	61.78
10	81.03	89.18
20	94.45	124.56
50	111.83	167.90
100	124.85	198.79
200	137.82	228.69
500	154.94	268.05
1000	167.88	297.94
2000	180.81	327.34
5000	197.9	365.70
10000	210.83	396.59



5170, La Rosa, Gral. Cepeda		
Tr (años)	hp individual (mm)	hp regional (mm)
2	71.4	68.54
5	148.25	106.24
10	199.12	153.37
20	247.93	214.20
50	311.1	288.74
100	358.44	341.86
200	405.6	393.27
500	467.83	460.96
1000	514.86	512.37
2000	561.87	562.92
5000	624.01	628.89
10000	671	682.01



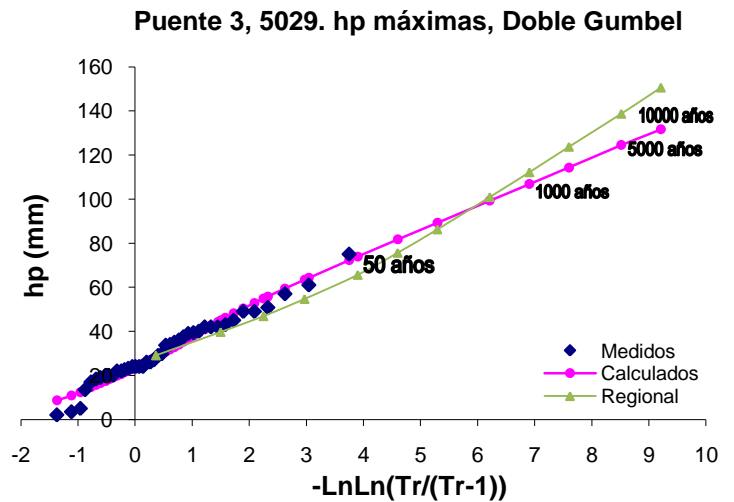
5174, El Tunal, Arteaga		
Tr (años)	hp individual (mm)	hp regional (mm)
2	27.91	23.86
5	40.6	36.98
10	48.24	53.38
20	55.03	74.56
50	63.45	100.51
100	69.66	119.00
200	75.8	136.89
500	83.89	160.45
1000	89.96	178.34
2000	96.08	195.94
5000	104.04	218.90
10000	110.25	237.40



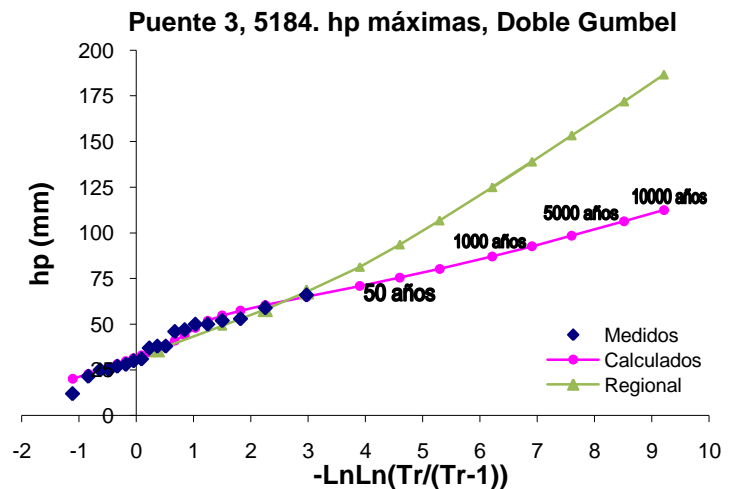
ANEXO C

En las tablas siguientes se presentan los resultados de la extrapolación de las precipitaciones máximas anuales para varios periodos de retorno de cada una de las estaciones consideradas para el análisis climatológico del Puente 3. Para cada estación también se presentan las gráficas de ajuste del análisis individual así como del resultado obtenido con la regionalización.

5029, Presa La Flor, Torreón		
Tr (años)	hp individual (mm)	hp regional (mm)
2	28.36	29.06
5	45	39.68
10	54.88	46.87
20	63.44	54.68
50	73.97	65.62
100	81.68	75.62
200	89.3	86.24
500	99.3	100.93
1000	106.84	112.18
2000	114.33	123.74
5000	124.54	138.74
10000	131.67	150.61

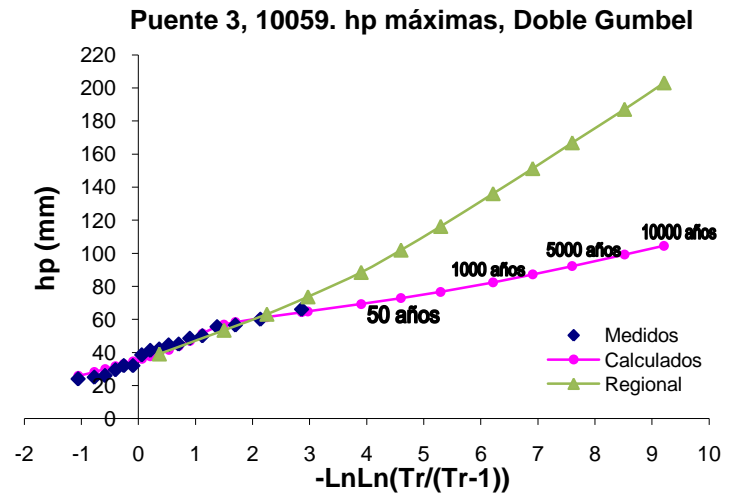


5184, Tanque Aguilero, Viesca		
Tr (años)	hp individual (mm)	hp regional (mm)
2	36.48	36.00
5	54.75	49.16
10	60.44	58.07
20	65.05	67.74
50	70.92	81.29
100	75.5	93.68
200	80.31	106.84
500	87.13	125.04
1000	92.65	138.97
2000	98.47	153.29
5000	106.34	171.87
10000	112.54	186.58

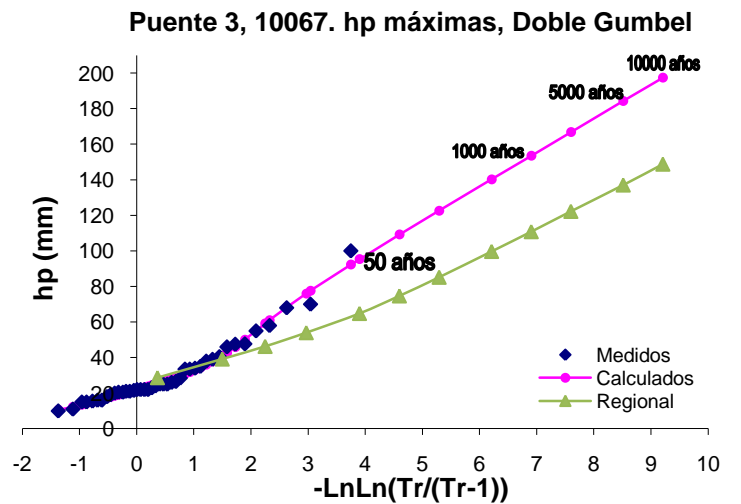


ANEXOS

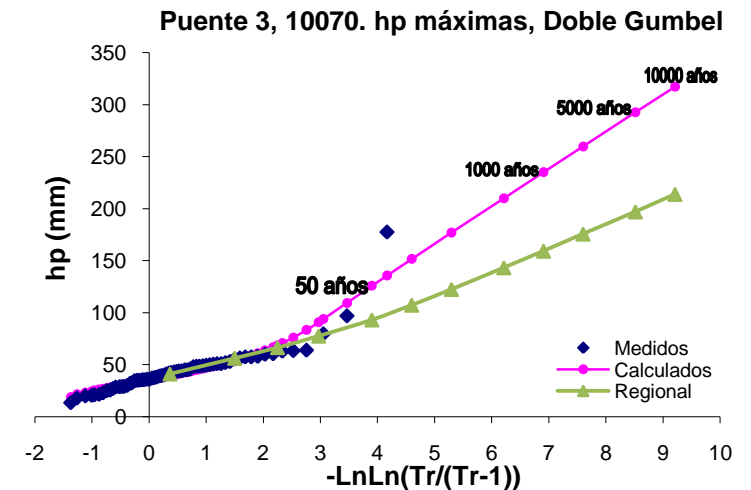
10059, Ramón Corona, Cuéncame		
Tr (años)	hp individual (mm)	hp regional (mm)
2	39.53	39.18
5	56.91	53.50
10	61.39	63.19
20	64.85	73.73
50	69.29	88.47
100	72.84	101.95
200	76.7	116.28
500	82.38	136.08
1000	87.17	151.24
2000	92.25	166.83
5000	99.24	187.05
10000	104.57	203.06



10067, San Juan de Guadalupe		
Tr (años)	hp individual (mm)	hp regional (mm)
2	25.37	28.71
5	40.93	39.21
10	59.11	46.31
20	75.96	54.03
50	95.35	64.84
100	109.15	74.71
200	122.62	85.21
500	140.25	99.72
1000	153.48	110.84
2000	166.76	122.26
5000	184.33	137.08
10000	197.41	148.81

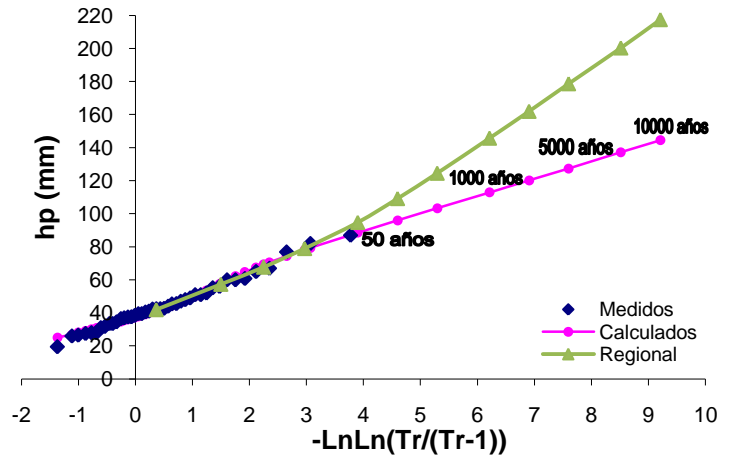


10070, San Marcos, Santa Clara		
Tr (años)	hp individual (mm)	hp regional (mm)
2	39.5	41.28
5	54.17	56.37
10	68.65	66.58
20	90.85	77.67
50	125.85	93.21
100	151.72	107.41
200	177.01	122.50
500	210.05	143.36
1000	235	159.34
2000	259.86	175.76
5000	292.76	197.07
10000	317.24	213.93



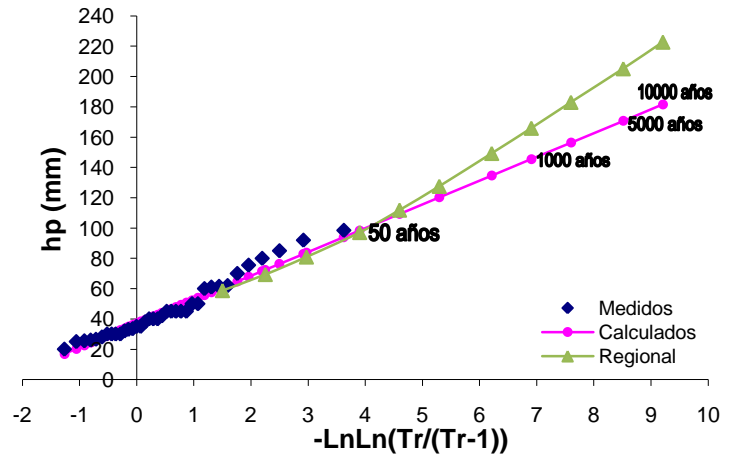
10074, Santa Clara, Santa Clara		
Tr (años)	hp individual (mm)	hp regional (mm)
2	41.25	41.96
5	57.9	57.30
10	69.31	67.68
20	78.13	78.96
50	88.49	94.75
100	95.95	109.19
200	103.3	124.53
500	112.93	145.73
1000	120.17	161.98
2000	127.36	178.67
5000	137.17	200.33
10000	144.47	217.47

Puente 3, 10074. hp máximas, Doble Gumbel



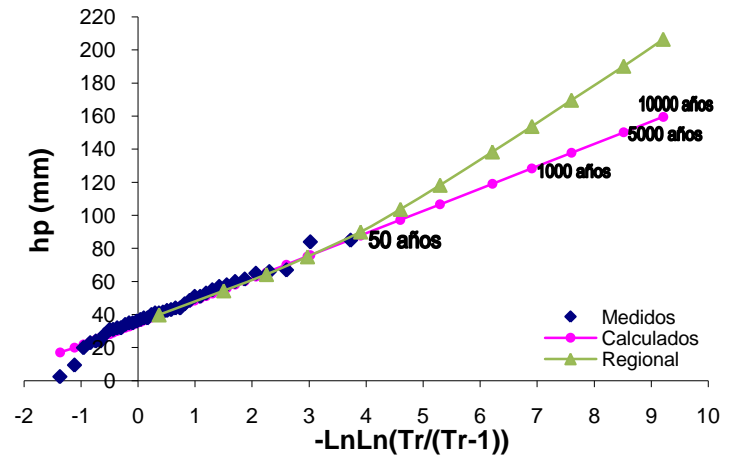
10080, Simón Bolívar, Simón Bolívar		
Tr (años)	hp individual (mm)	hp regional (mm)
5	60.69	58.69
10	72.46	69.32
20	83.75	80.88
50	98.36	97.05
100	109.31	111.84
200	120.22	127.56
500	134.62	149.28
1000	145.49	165.92
2000	156.37	183.02
5000	170.74	205.20
10000	181.61	222.76

Puente 3, 10080. hp máximas, Gumbel



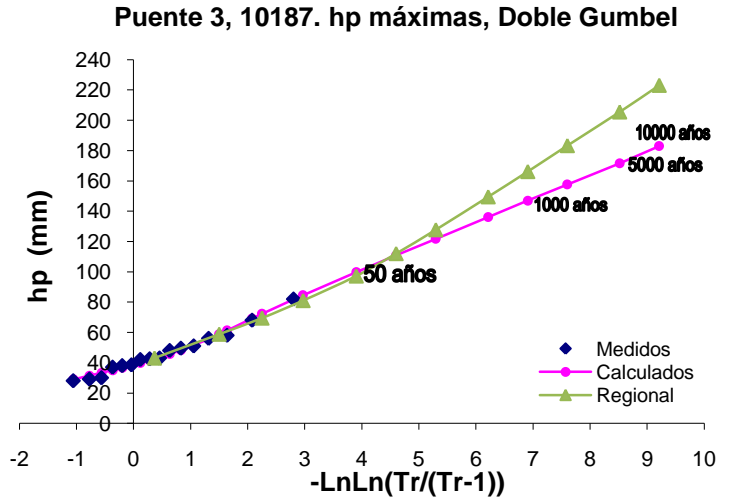
10099, San Juan de Guadalupe		
Tr (años)	hp individual (mm)	hp regional (mm)
2	39.97	39.82
5	55.3	54.38
10	65.45	64.23
20	75.18	74.93
50	87.78	89.92
100	97.22	103.62
200	106.63	118.18
500	119.05	138.30
1000	128.43	153.71
2000	137.8	169.56
5000	150.2	190.11
10000	159.57	206.38

Puente 3, 10099. hp máximas, Gumbel

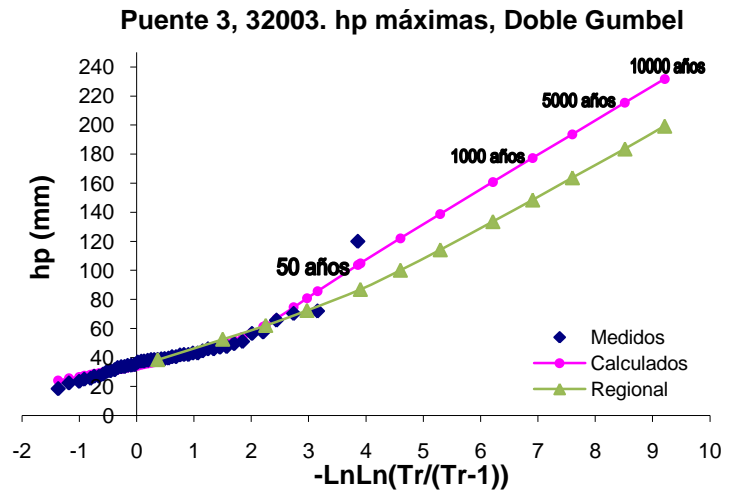


ANEXOS

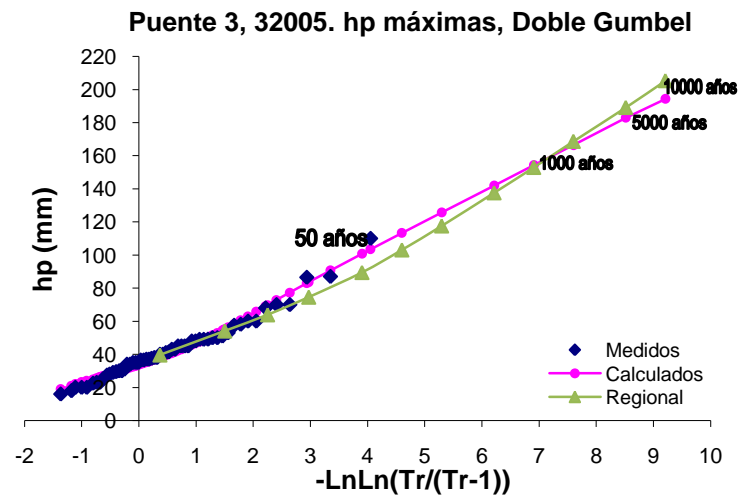
10187, Los Naranjos, S. Bolívar		
Tr (años)	hp individual (mm)	hp regional (mm)
2	42.54	43.05
5	58.84	58.79
10	72.28	69.43
20	84.6	81.00
50	99.75	97.20
100	110.82	112.02
200	121.73	127.75
500	136.06	149.51
1000	146.93	166.17
2000	157.67	183.30
5000	171.61	205.52
10000	183.02	223.11



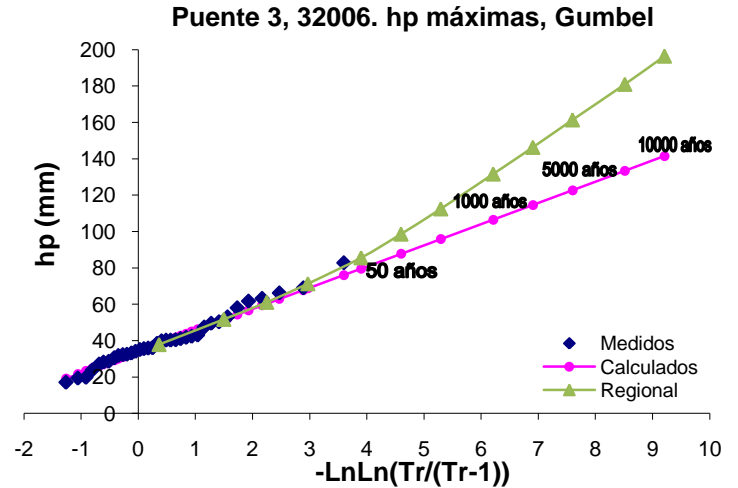
32003, Víctor Rosales, Calera		
Tr (años)	hp individual (mm)	hp regional (mm)
2	37.23	38.46
5	48.84	52.52
10	62.15	62.03
20	80.75	72.37
50	104.8	86.84
100	122.01	100.07
200	138.83	114.13
500	160.78	133.57
1000	177.33	148.46
2000	193.62	163.76
5000	215.51	183.61
10000	231.8	199.32



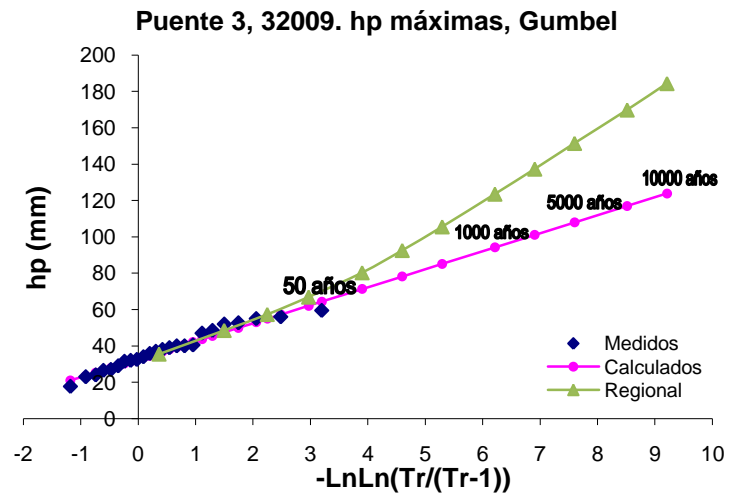
32005, Cañitas Felipe Pescador		
Tr (años)	hp individual (mm)	hp regional (mm)
2	38.1	39.62
5	55.24	54.11
10	69.75	63.91
20	83.63	74.56
50	100.81	89.47
100	113.36	103.10
200	125.75	117.59
500	141.99	137.62
1000	154.28	152.95
2000	166.43	168.72
5000	182.95	189.17
10000	194.35	205.36



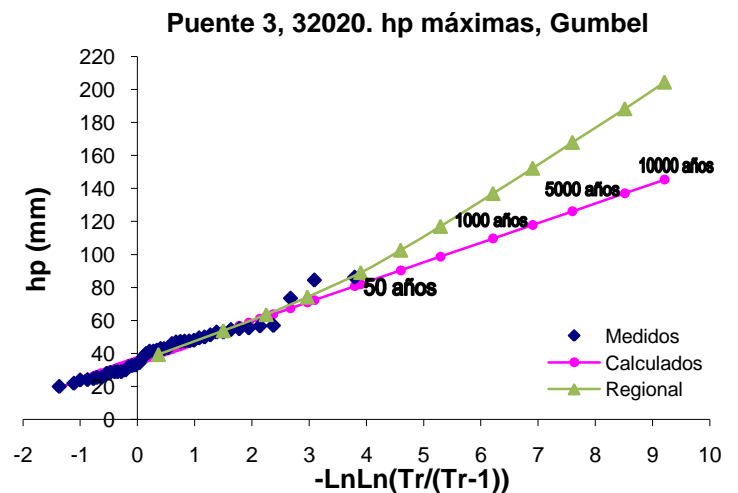
32006,Cazadero II, Río Grande		
Tr (años)	hp individual (mm)	hp regional (mm)
2	38.34	37.91
5	51.56	51.77
10	60.31	61.15
20	68.7	71.34
50	79.56	85.61
100	87.7	98.66
200	95.81	112.52
500	106.51	131.68
1000	114.6	146.35
2000	122.69	161.44
5000	133.37	181.00
10000	141.45	196.50



32009,Jerez de G.S. (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	36.29	35.58
5	47.51	48.59
10	54.95	57.39
20	62.07	66.95
50	71.3	80.34
100	78.21	92.59
200	85.1	105.59
500	94.19	123.57
1000	101.06	137.35
2000	107.92	151.50
5000	117	169.87
10000	123.86	184.41



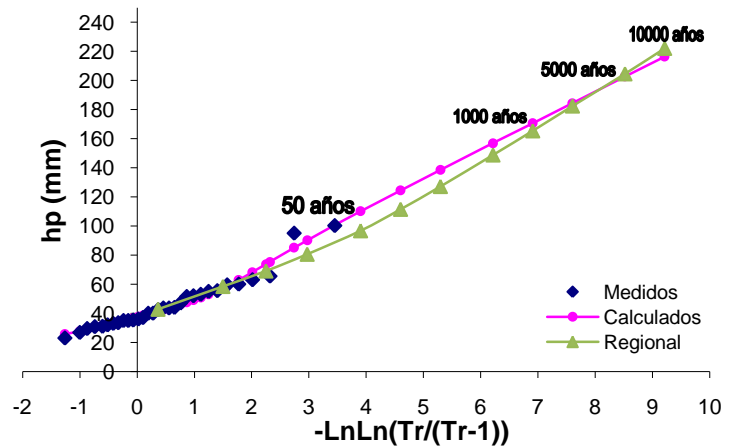
32020,Fresnillo. Fresnillo		
Tr (años)	hp individual (mm)	hp regional (mm)
2	39.91	39.46
5	53.43	53.88
10	62.37	63.64
20	70.96	74.24
50	82.06	89.09
100	90.39	102.67
200	98.68	117.09
500	109.62	137.03
1000	117.89	152.31
2000	126.16	168.00
5000	137.09	188.37
10000	145.35	204.49



ANEXOS

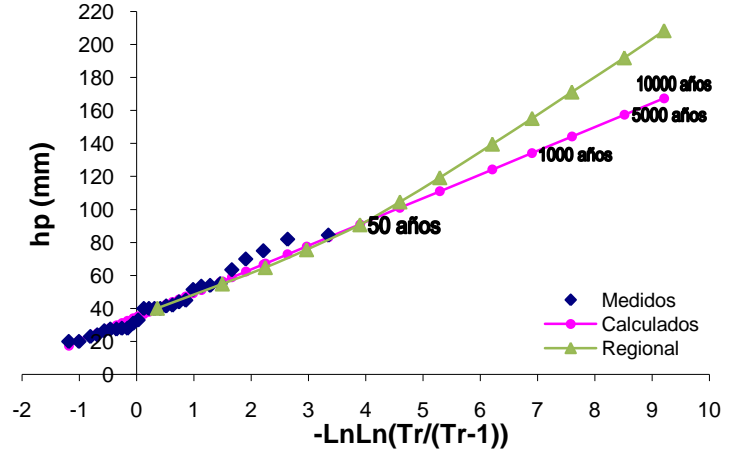
32021, González Ortega		
Tr (años)	hp individual (mm)	hp regional (mm)
2	41.45	42.86
5	57.5	58.53
10	73.78	69.14
20	90.23	80.66
50	110.15	96.79
100	124.47	111.54
200	138.52	127.21
500	156.9	148.87
1000	170.68	165.46
2000	184.36	182.52
5000	202.74	204.64
10000	216.41	222.16

Puente 3, 32021. hp máximas, Gumbel



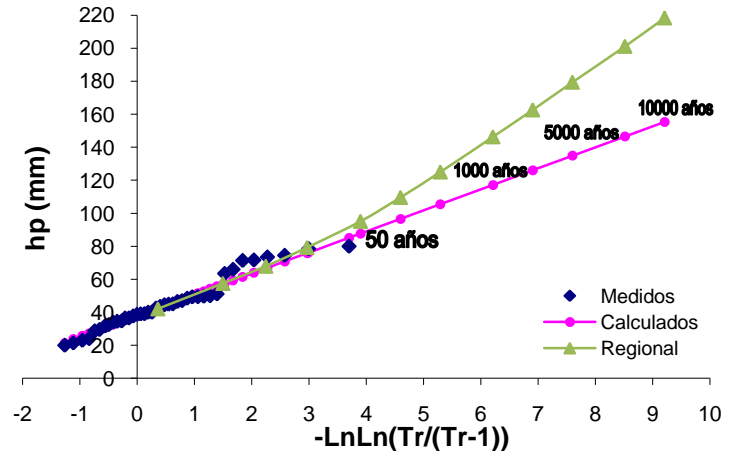
32023, Gpe. De las Corrientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	40.19	40.19
5	56.48	54.88
10	67.26	64.82
20	77.61	75.63
50	91	90.75
100	101.03	104.58
200	111.03	119.27
500	124.22	139.58
1000	134.19	155.14
2000	144.15	171.13
5000	157.33	191.87
10000	167.29	208.29

Puente 3, 32023. hp máximas, Gumbel

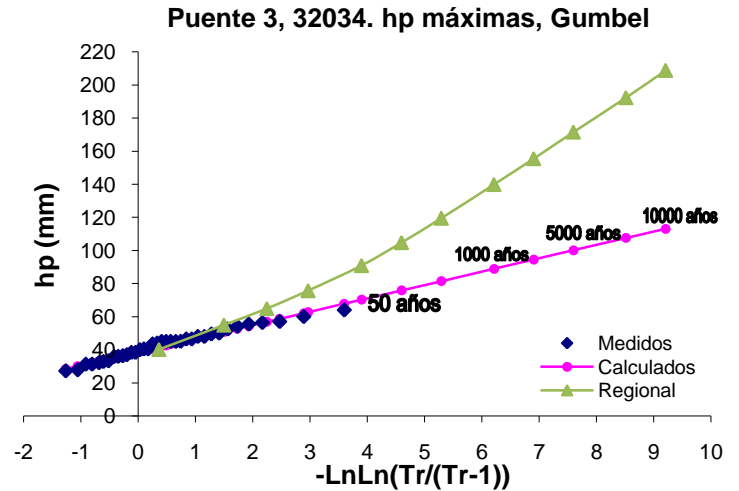


32028, Juan Aldama, Juan Aldama		
Tr (años)	hp individual (mm)	hp regional (mm)
2	42.62	42.14
5	57.07	57.55
10	66.64	67.97
20	75.81	79.30
50	87.69	95.16
100	96.59	109.66
200	105.46	125.06
500	117.16	146.36
1000	126	162.67
2000	134.84	179.44
5000	146.52	201.19
10000	155.35	218.41

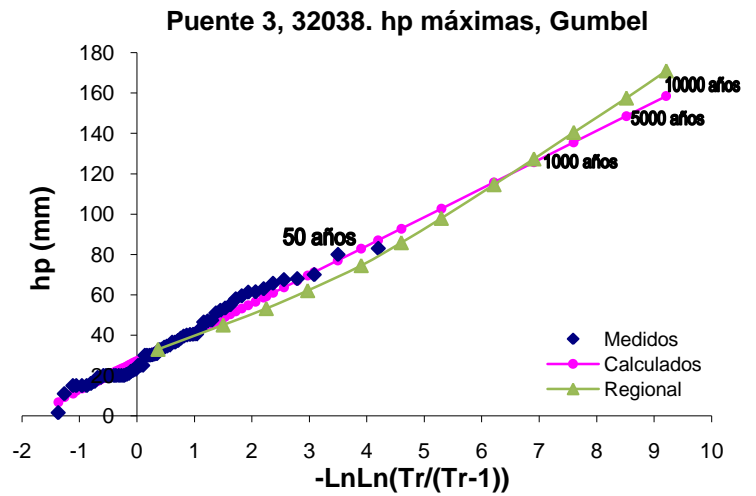
Puente 3, 32028. hp máximas, Gumbel



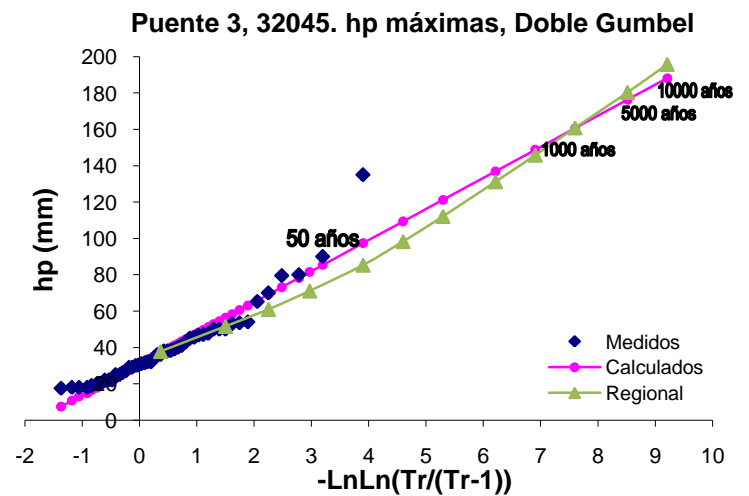
2034, Los Puertos (Pto. San Francisco)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	41.73	40.30
5	50.88	55.03
10	56.94	65.00
20	62.75	75.83
50	70.27	90.99
100	75.91	104.86
200	81.52	119.59
500	88.93	139.96
1000	94.53	155.56
2000	100.13	171.59
5000	107.53	192.39
10000	113.12	208.85



32038, Nieves, Gral.Fco.Murguía		
Tr (años)	hp individual (mm)	hp regional (mm)
2	32.47	32.99
5	48.62	45.05
10	59.31	53.20
20	69.57	62.07
50	82.85	74.49
100	92.8	85.84
200	102.71	97.90
500	115.79	114.57
1000	125.68	127.34
2000	135.56	140.46
5000	148.62	157.49
10000	158.5	170.96

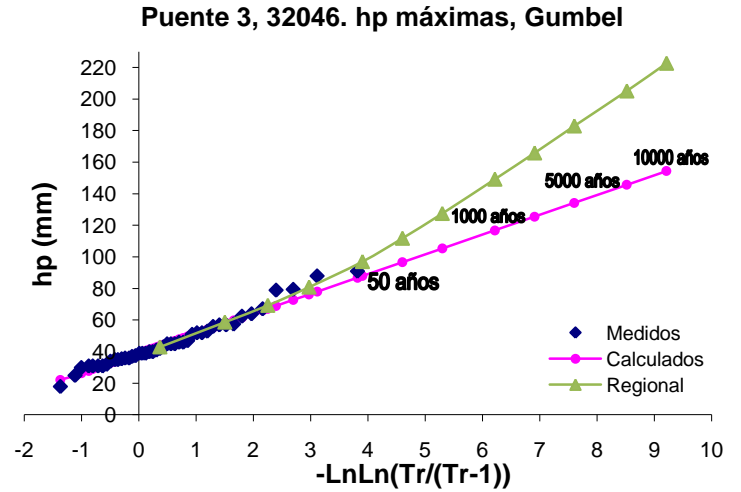


32045, Río Grande, Río Grande (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	37	37.76
5	56.37	51.56
10	69.19	60.90
20	81.5	71.05
50	97.42	85.26
100	109.35	98.26
200	121.24	112.06
500	136.92	131.14
1000	148.77	145.76
2000	160.62	160.78
5000	176.28	180.27
10000	188.13	195.70

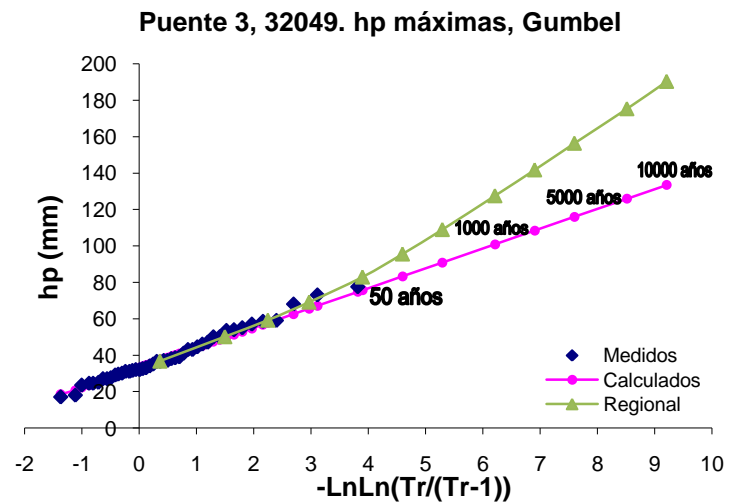


ANEXOS

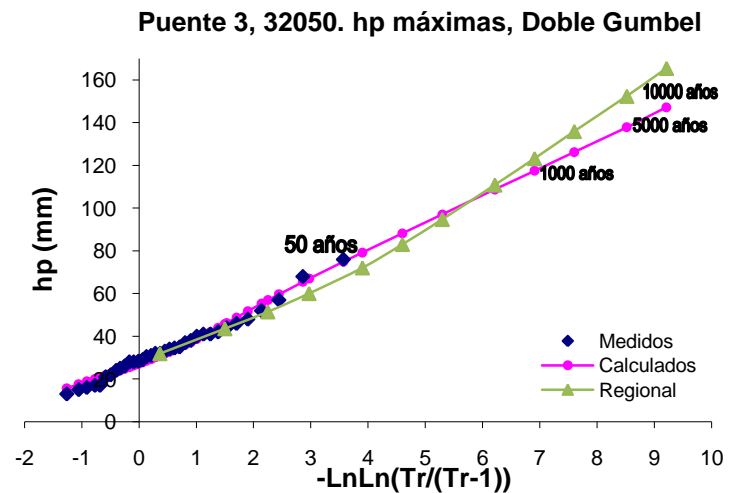
32046, Sain Alto, Sain Alto		
Tr (años)	hp individual (mm)	hp regional (mm)
2	43.55	42.96
5	57.76	58.67
10	67.16	69.29
20	76.18	80.84
50	87.86	97.01
100	96.61	111.79
200	105.32	127.49
500	116.82	149.20
1000	125.52	165.83
2000	134.2	182.93
5000	145.69	205.10
10000	154.37	222.65



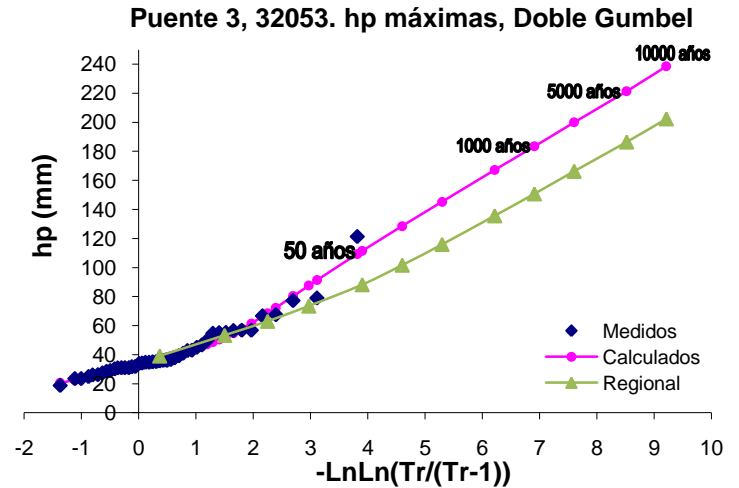
32049, San Francisco		
Tr (años)	hp individual (mm)	hp regional (mm)
2	37.19	36.72
5	49.53	50.15
10	57.7	59.23
20	65.54	69.10
50	75.69	82.92
100	83.29	95.56
200	90.86	108.98
500	100.85	127.54
1000	108.41	141.76
2000	115.96	156.37
5000	125.93	175.32
10000	133.48	190.33



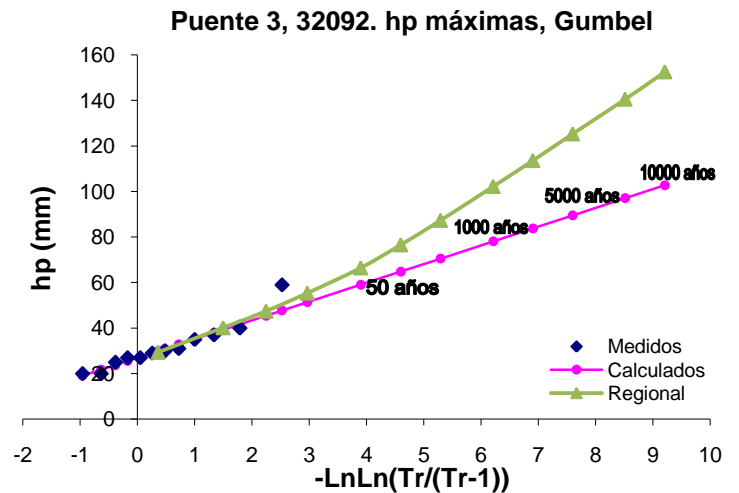
32050, San Gil, Gral. Fco. Murguía		
Tr (años)	hp individual (mm)	hp regional (mm)
2	30.94	31.92
5	45.71	43.59
10	56.92	51.48
20	66.95	60.06
50	79.21	72.07
100	88.16	83.05
200	97.01	94.72
500	108.66	110.85
1000	117.42	123.21
2000	126.19	135.91
5000	137.83	152.38
10000	147.15	165.42



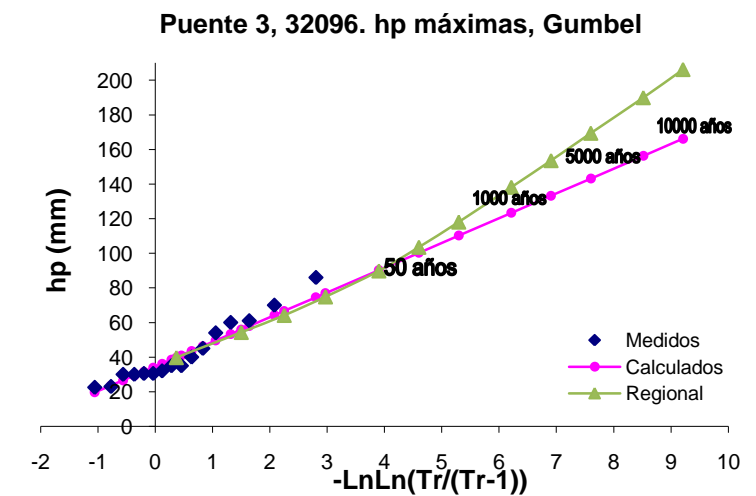
32053, Santa Rosa, Fresnillo		
Tr (años)	hp individual (mm)	hp regional (mm)
2	36.93	39.05
5	52.06	53.32
10	68.46	62.98
20	87.58	73.48
50	111.4	88.17
100	128.51	101.61
200	145.24	115.88
500	167.1	135.62
1000	183.48	150.73
2000	199.97	166.27
5000	221.29	186.42
10000	238.55	202.38



32092, Camacho. Mazapil		
Tr (años)	hp individual (mm)	hp regional (mm)
2	29.93	29.45
5	39.27	40.22
10	45.44	47.50
20	51.37	55.42
50	59.04	66.50
100	64.79	76.63
200	70.52	87.40
500	78.08	102.28
1000	83.79	113.68
2000	89.5	125.40
5000	97.04	140.60
10000	102.75	152.63

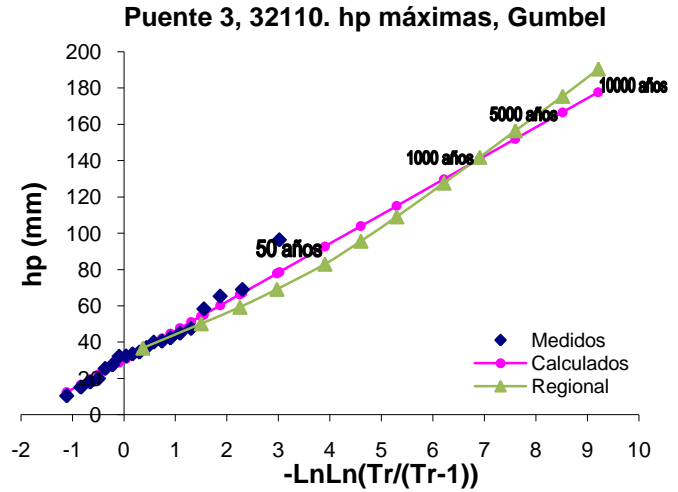


32096, Río Grande, Río Grande		
Tr (años)	hp individual (mm)	hp regional (mm)
2	39.77	39.79
5	55.98	54.33
10	66.71	64.17
20	77	74.87
50	90.32	89.84
100	100.3	103.53
200	110.25	118.08
500	123.37	138.18
1000	133.29	153.58
2000	143.21	169.41
5000	156.31	189.95
10000	166.22	206.21

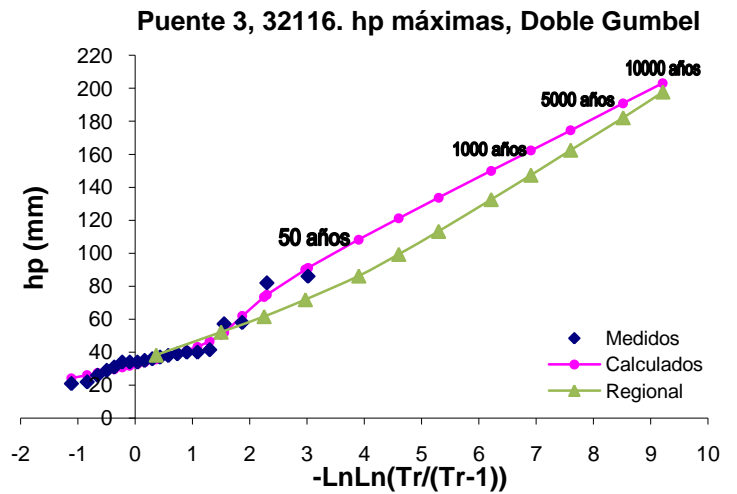


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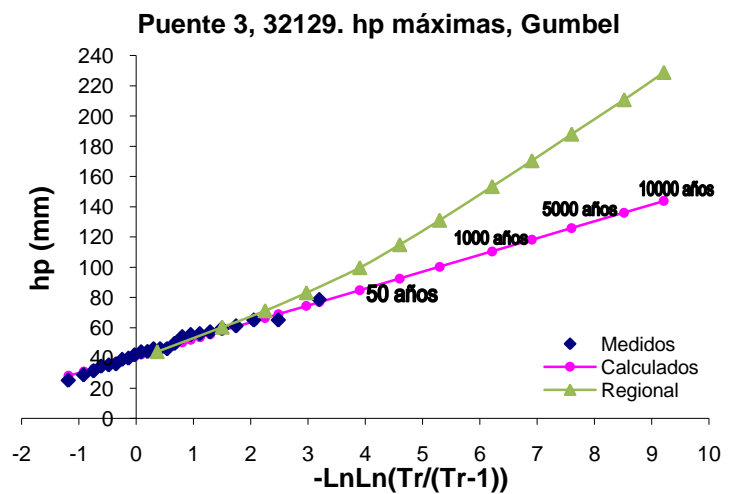
32110, Col. Grever Purisima S.		
Tr (años)	hp individual (mm)	hp regional (mm)
2	36.15	36.75
5	54.29	50.19
10	66.3	59.28
20	77.81	69.16
50	92.73	82.99
100	103.9	95.64
200	115.03	109.08
500	129.72	127.65
1000	140.82	141.88
2000	151.91	156.50
5000	166.58	175.47
10000	177.67	190.49



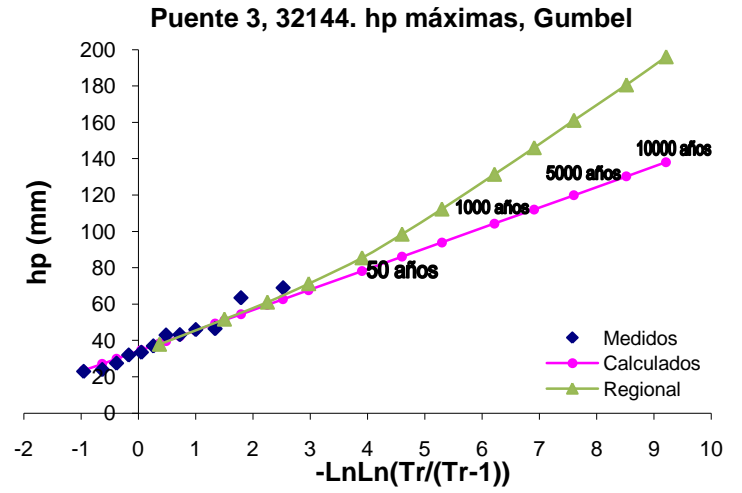
32116, Adjuntas del Refugio		
Tr (años)	hp individual (mm)	hp regional (mm)
2	35.58	38.16
5	50.53	52.11
10	73.51	61.55
20	90.11	71.81
50	108.28	86.17
100	121.11	99.30
200	133.63	113.26
500	150	132.54
1000	162.27	147.32
2000	174.54	162.50
5000	190.91	182.20
10000	203.09	197.79



32129, Presa Susticacan		
Tr (años)	hp individual (mm)	hp regional (mm)
2	45.38	44.15
5	58	60.29
10	66.35	71.21
20	74.37	83.08
50	84.74	99.70
100	92.52	114.89
200	100.26	131.03
500	110.48	153.34
1000	118.21	170.44
2000	125.93	188.00
5000	136.13	210.79
10000	143.85	228.83



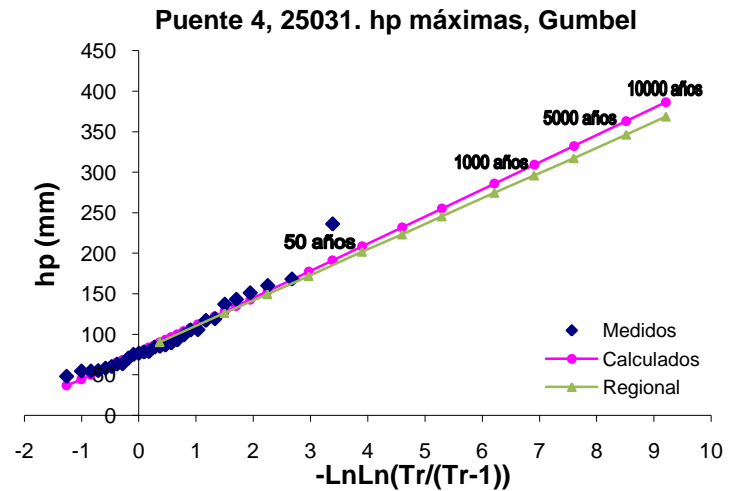
32144, Sn Francisco, Gral.F.R.Murguia		
Tr (años)	hp individual (mm)	hp regional (mm)
2	38.31	37.84
5	51.09	51.67
10	59.56	61.03
20	67.67	71.20
50	78.18	85.44
100	86.06	98.45
200	93.9	112.29
500	104.26	131.41
1000	112.08	146.05
2000	119.9	161.11
5000	130.24	180.63
10000	138.06	196.09



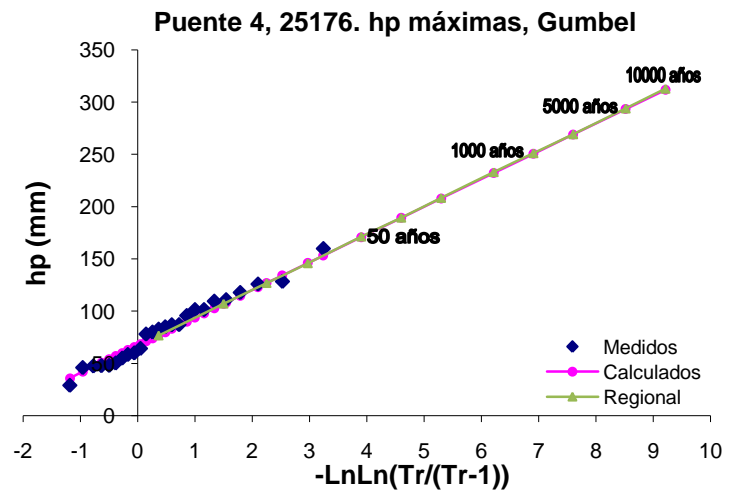
ANEXO D

En las tablas siguientes se presentan los resultados de la extrapolación de las precipitaciones máximas anuales para varios periodos de retorno de cada una de las estaciones consideradas para el análisis climatológico del Puente 4. Para cada estación también se presentan las gráficas de ajuste del análisis individual así como del resultado obtenido con la regionalización.

25031, El Quelite, Mazatlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	89.94	90.21
5	127.94	126.10
10	153.09	149.39
20	177.22	171.70
50	208.45	201.77
100	231.86	223.11
200	255.17	245.42
500	285.94	274.52
1000	309.19	295.86
2000	332.43	317.20
5000	363.15	346.30
10000	386.39	368.61



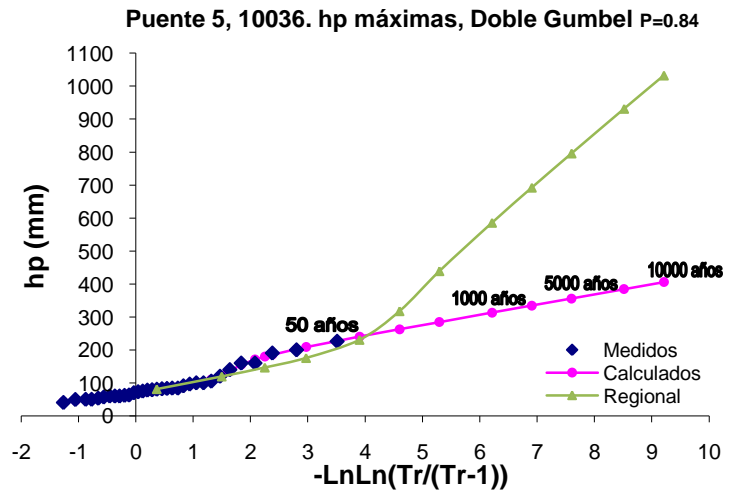
25176, El Quemado, Mazatlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	76.86	76.57
5	106.96	107.03
10	126.9	126.79
20	146.02	145.72
50	170.77	171.24
100	189.32	189.35
200	207.79	208.29
500	232.17	232.99
1000	250.6	251.10
2000	269.02	269.21
5000	293.36	293.91
10000	311.77	312.85



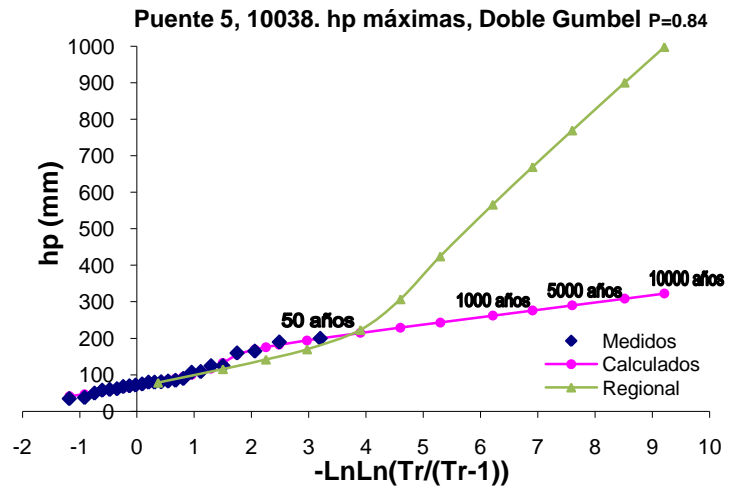
ANEXO E

En las tablas siguientes se presentan los resultados de la extrapolación de las precipitaciones máximas anuales para varios periodos de retorno de cada una de las estaciones consideradas para el análisis climatológico del Puente 5. Para cada estación también se presentan las gráficas de ajuste del análisis individual así como del resultado obtenido con la regionalización.

10036, La Ciudad, Pueblo Nuevo		
Tr (años)	hp individual (mm)	hp regional (mm)
2	77.89	81.27
5	121.83	119.57
10	179.71	146.66
20	208.71	175.61
50	240.35	230.73
100	262.73	317.60
200	284.57	439.04
500	313.11	585.69
1000	334.69	692.18
2000	356.03	795.87
5000	384.36	931.32
10000	405.7	1032.20

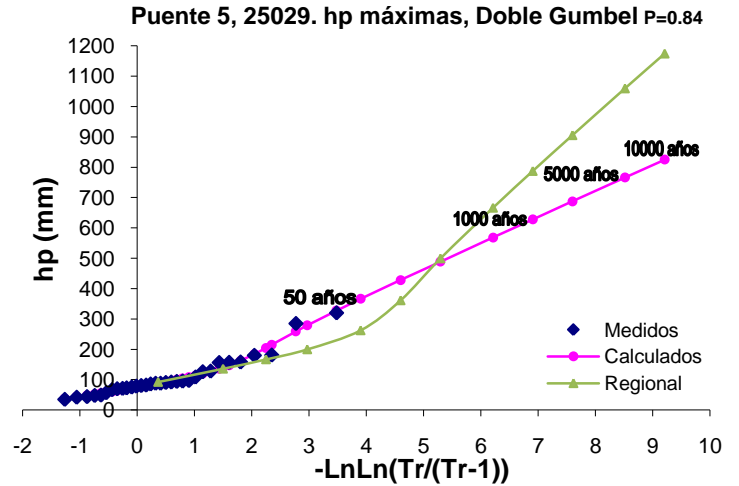


10038, La Peña, Pueblo Nuevo		
Tr (años)	hp individual (mm)	hp regional (mm)
2	80.38	78.53
5	132.39	115.53
10	175.7	141.71
20	194.21	169.69
50	214.67	222.94
100	229.2	306.88
200	243.41	424.22
500	262.03	565.93
1000	275.92	668.82
2000	290.04	769.01
5000	308.71	899.88
10000	322.61	997.36

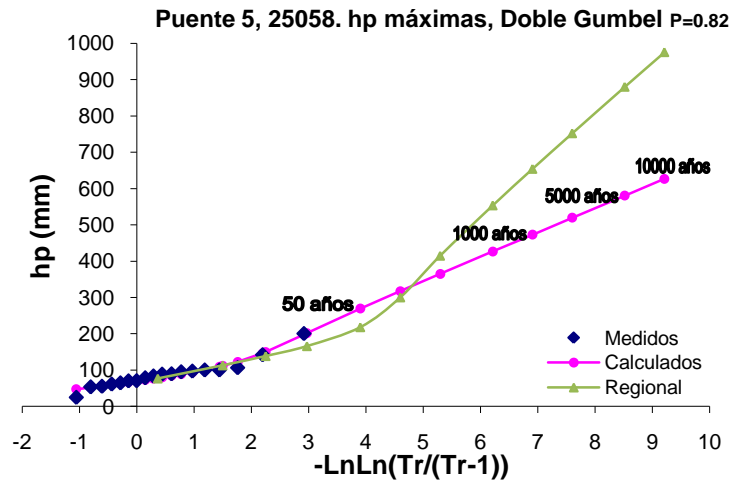


ANEXOS

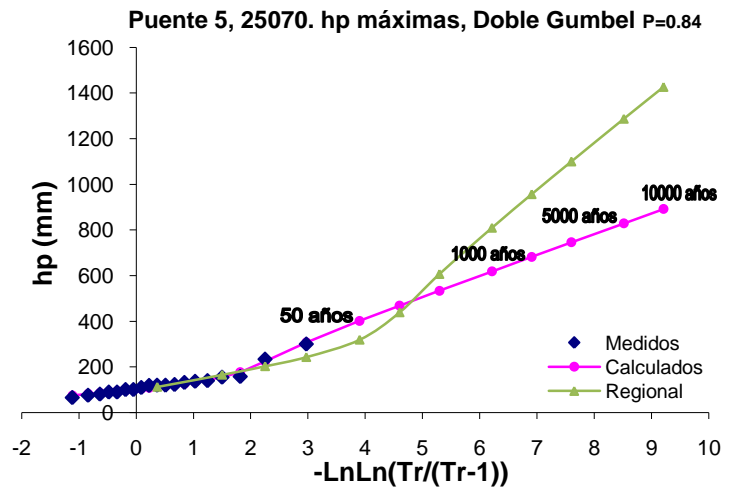
25029, El Palmito, Concordia		
Tr (años)	hp individual (mm)	hp regional (mm)
2	95.69	92.49
5	152.83	136.08
10	190.66	166.91
20	226.95	199.86
50	273.93	262.58
100	309.13	361.45
200	344.2	499.65
500	390.47	666.56
1000	425.44	787.75
2000	460.4	905.76
5000	506.6	1059.90
10000	541.54	1174.72



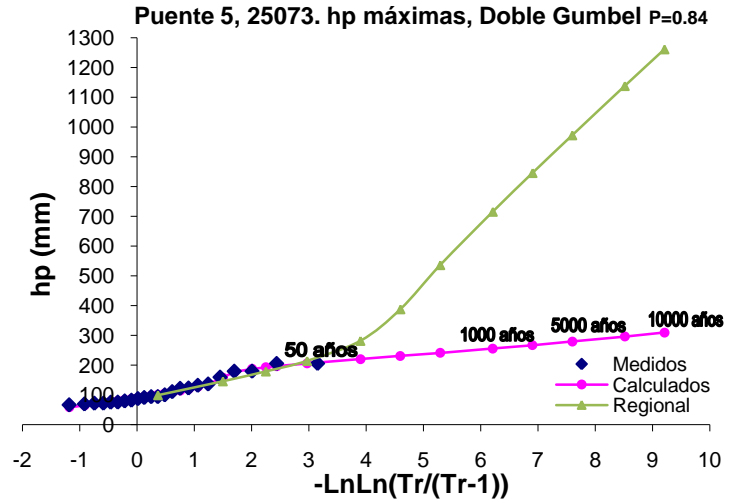
25058, Las Habitas, Rosario		
Tr (años)	hp individual (mm)	hp regional (mm)
2	78.45	76.79
5	111.67	112.98
10	150.16	138.58
20	202.12	165.94
50	269.18	218.02
100	317.49	300.11
200	364.78	414.85
500	426.62	553.43
1000	473.05	654.06
2000	519.66	752.03
5000	580.61	880.02
10000	626.5	975.35



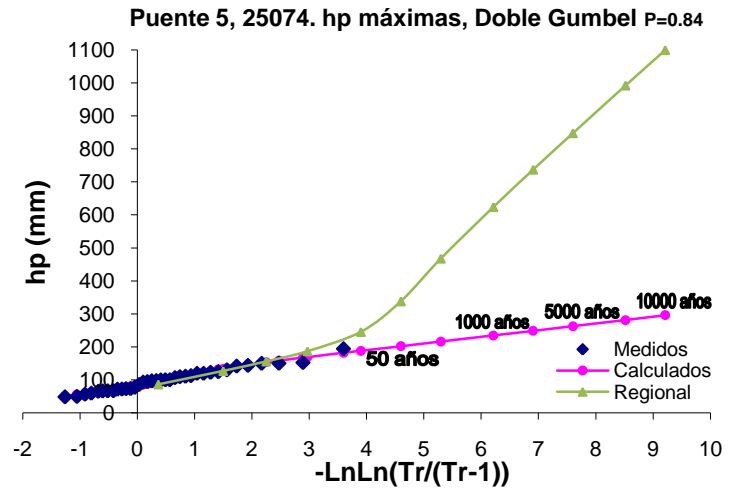
25070, Pánuco, Concordia		
Tr (años)	hp individual (mm)	hp regional (mm)
2	112.67	112.32
5	155.39	165.25
10	223.68	202.70
20	307.47	242.72
50	401.95	318.89
100	468.61	438.96
200	533.73	606.79
500	618.42	809.49
1000	682.43	956.67
2000	746.44	1099.98
5000	829.17	1287.18
10000	892.2	1426.61



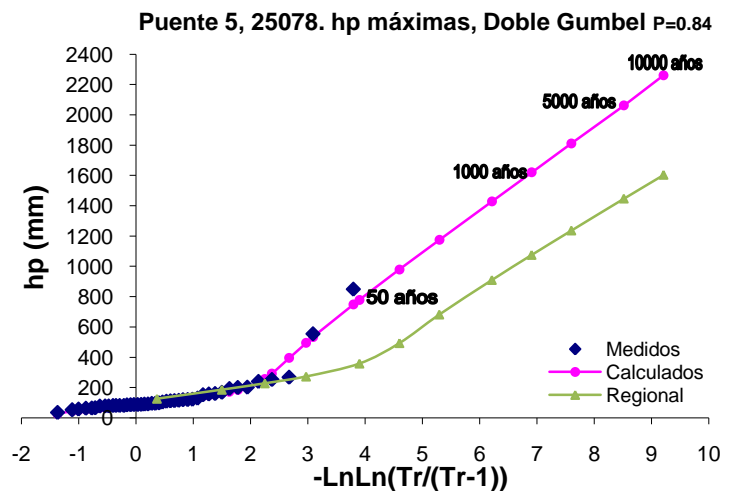
25073, Plomasas, Rosario		
Tr (años)	hp individual (mm)	hp regional (mm)
2	101.33	99.24
5	158.22	146.01
10	193.07	179.09
20	205.89	214.45
50	220.41	281.75
100	230.99	387.84
200	241.6	536.13
500	256.07	715.22
1000	267.49	845.26
2000	279.37	971.87
5000	296.51	1137.27
10000	309.73	1260.47



25074, Potrerillos, Concordia		
Tr (años)	hp individual (mm)	hp regional (mm)
2	93.85	86.53
5	134.22	127.31
10	153.77	156.15
20	169.4	186.98
50	188.39	245.66
100	202.35	338.16
200	216.26	467.45
500	234.68	623.60
1000	248.75	736.98
2000	262.93	847.38
5000	281.29	991.59
10000	296.46	1099.01

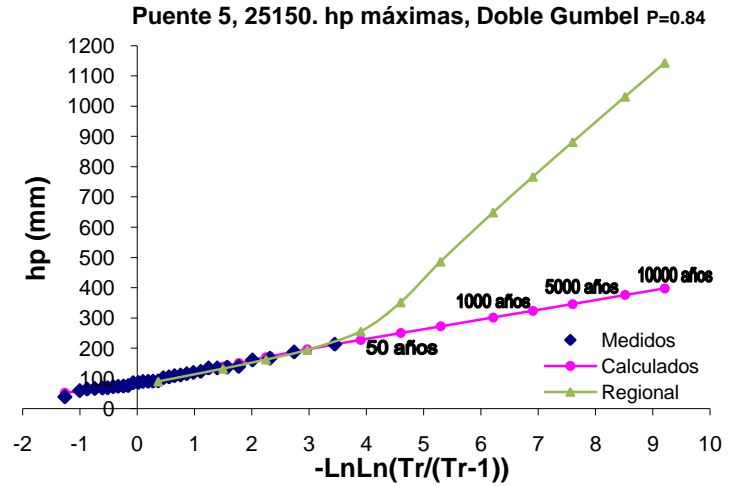


25078, Rosario, Rosario		
Tr (años)	hp individual (mm)	hp regional (mm)
2	105.96	126.24
5	163.37	185.73
10	256.77	227.81
20	495.03	272.79
50	779.04	358.40
100	979.17	493.34
200	1174.43	681.97
500	1428.77	909.78
1000	1620.16	1075.19
2000	1811.56	1236.25
5000	2061.84	1446.65
10000	2262.07	1603.36

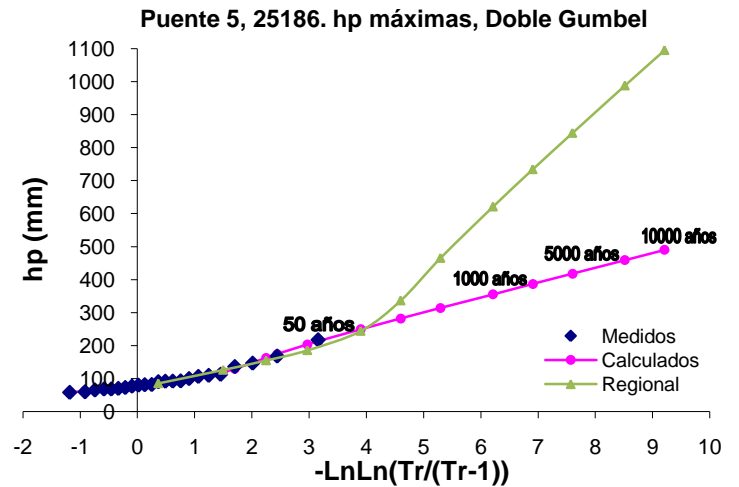


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25150, Las Tortugas, Rosario		
Tr (años)	hp individual (mm)	hp regional (mm)
2	95.54	89.99
5	139.26	132.40
10	170.3	162.40
20	196.3	194.46
50	227.47	255.49
100	250.1	351.68
200	272.42	486.15
500	301.67	648.55
1000	323.86	766.47
2000	346.05	881.28
5000	375.87	1031.26
10000	398.06	1142.98



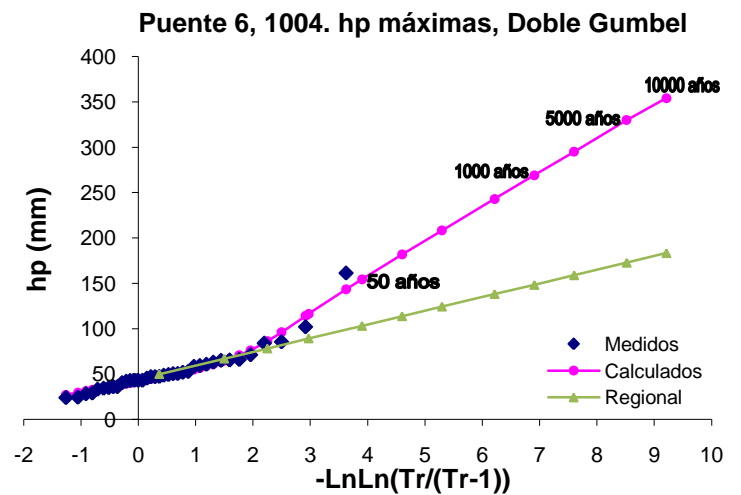
25186, Otatitlán, Rosario		
Tr (años)	hp individual (mm)	hp regional (mm)
2	86.61	86.19
5	119.69	126.81
10	163.15	155.54
20	203.76	186.25
50	249.74	244.71
100	282.29	336.84
200	314.11	465.64
500	355.66	621.18
1000	386.81	734.12
2000	417.97	844.09
5000	459.03	987.74
10000	489.95	1094.74



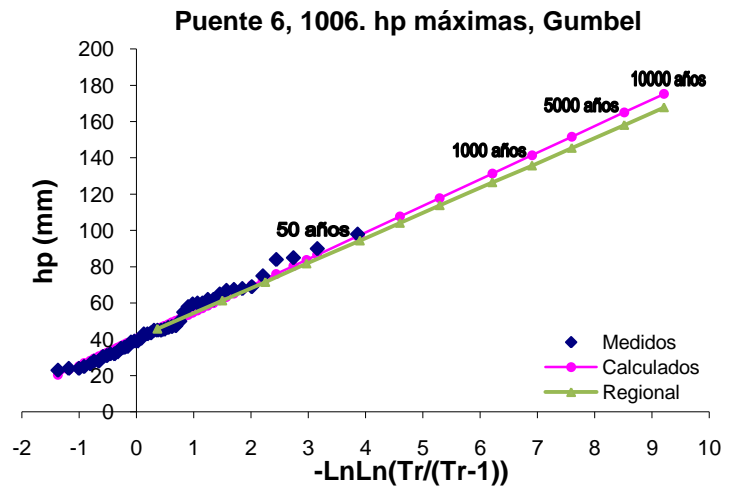
ANEXO F

En las tablas siguientes se presentan los resultados de la extrapolación de las precipitaciones máximas anuales para varios periodos de retorno de cada una de las estaciones consideradas para el análisis climatológico de los Puentes 6 y 7. Para cada estación también se presentan las gráficas de ajuste del análisis individual así como del resultado obtenido con la regionalización.

1004, Cañada Honda, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	46.55	49.95
5	64.6	66.95
10	86.15	78.11
20	116.32	89.27
50	154.51	103.09
100	181.73	113.71
200	208.33	124.34
500	242.96	138.16
1000	269.1	148.25
2000	295.04	158.88
5000	330.03	172.70
10000	354.16	183.33

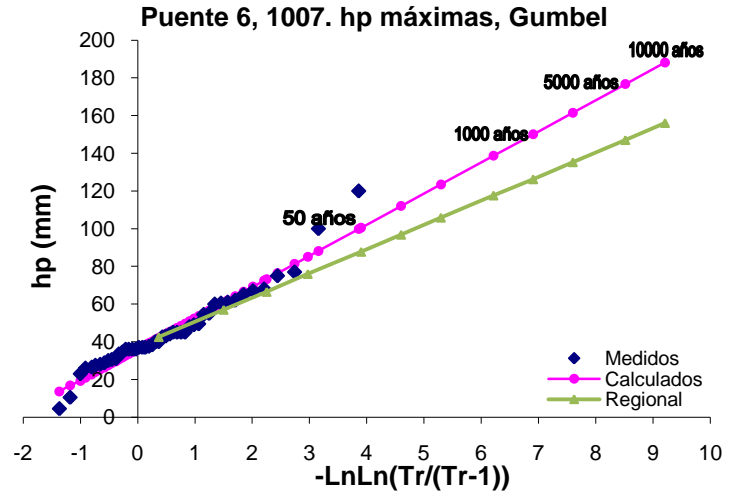


1006, El Tule, Asientos		
Tr (años)	hp individual (mm)	hp regional (mm)
2	45.56	45.73
5	62.18	61.30
10	73.18	71.51
20	83.73	81.73
50	97.39	94.38
100	107.63	104.11
200	117.82	113.84
500	131.28	126.49
1000	141.45	135.73
2000	151.61	145.46
5000	165.05	158.11
10000	175.21	167.84

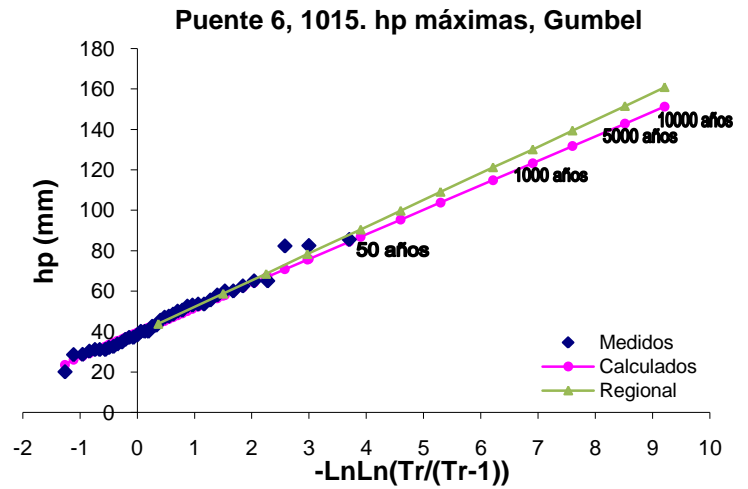


ANEXOS

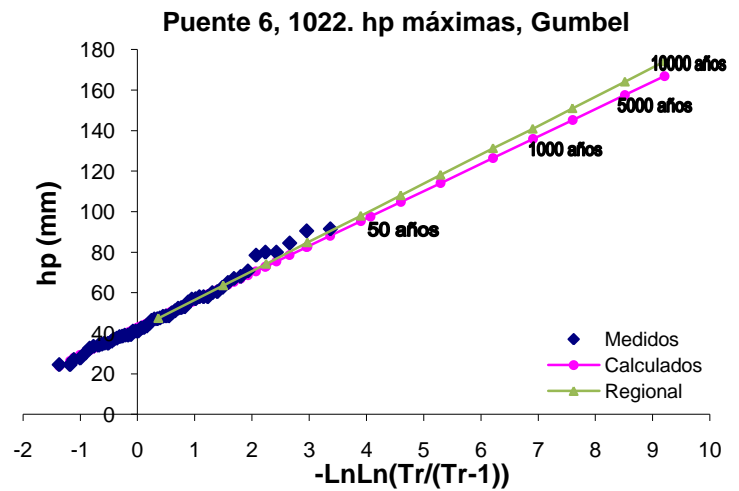
1007, Jesús María, Jesús María		
Tr (años)	hp individual (mm)	hp regional (mm)
2	42.06	42.52
5	60.78	57.00
10	73.18	66.50
20	85.07	76.00
50	100.46	87.76
100	111.99	96.81
200	123.48	105.85
500	138.65	117.61
1000	150.1	126.21
2000	161.56	135.26
5000	176.7	147.02
10000	188.15	156.06



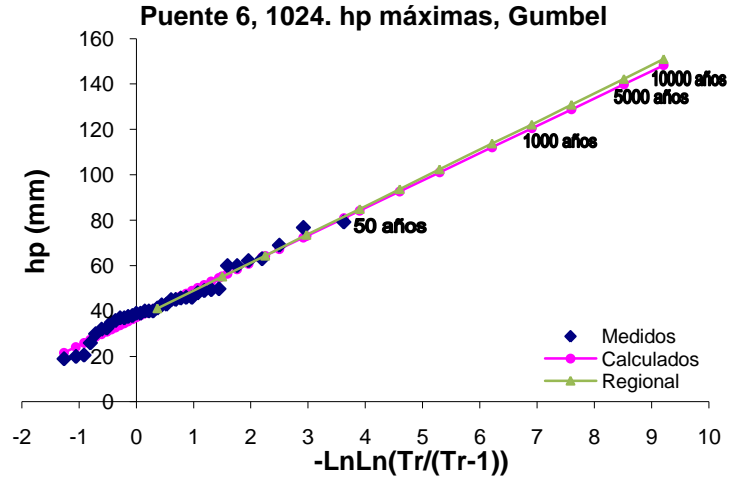
1015, Palo Alto, El Llano		
Tr (años)	hp individual (mm)	hp regional (mm)
2	43.94	43.82
5	57.69	58.74
10	66.8	68.53
20	75.54	78.32
50	86.84	90.44
100	95.32	99.76
200	103.76	109.08
500	114.9	121.21
1000	123.31	130.06
2000	131.73	139.39
5000	142.85	151.51
10000	151.26	160.83



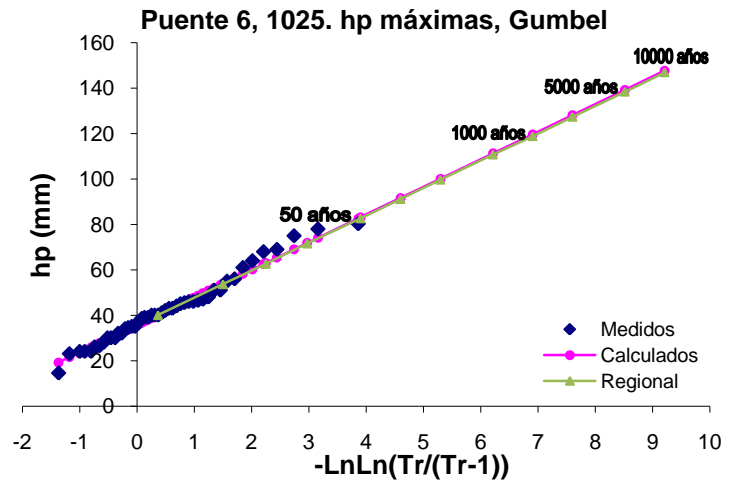
1022, San Bartolo, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	47.67	47.47
5	62.95	63.64
10	73.07	74.24
20	82.77	84.85
50	95.34	97.98
100	104.75	108.08
200	114.13	118.18
500	126.51	131.31
1000	135.86	140.91
2000	145.21	151.01
5000	157.57	164.14
10000	166.92	174.24



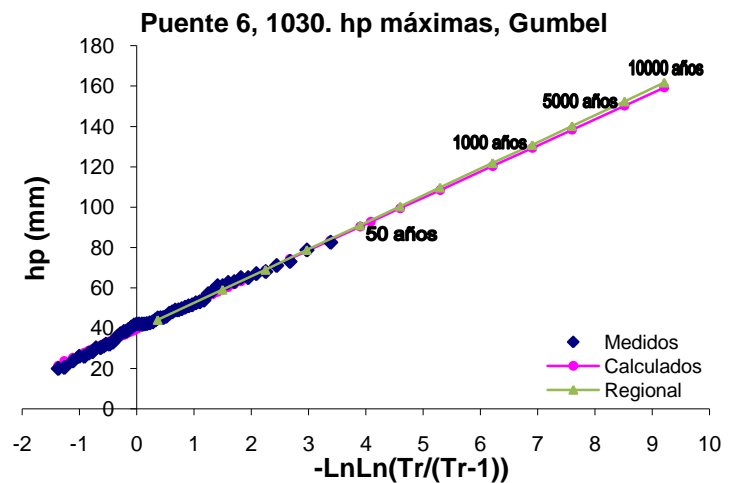
1024, San Isidro, El Llano		
Tr (años)	hp individual (mm)	hp regional (mm)
2	47.67	41.15
5	62.95	55.16
10	73.07	64.35
20	82.77	73.54
50	95.34	84.92
100	104.75	93.68
200	114.13	102.44
500	126.51	113.82
1000	135.86	122.13
2000	145.21	130.89
5000	157.57	142.27
10000	166.92	151.03



1025, San F. de los Romos (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	40.13	40.03
5	53.91	53.65
10	63.04	62.59
20	71.79	71.54
50	83.12	82.61
100	91.61	91.12
200	100.07	99.64
500	111.23	110.71
1000	119.66	118.80
2000	128.09	127.32
5000	139.24	138.39
10000	147.67	146.90

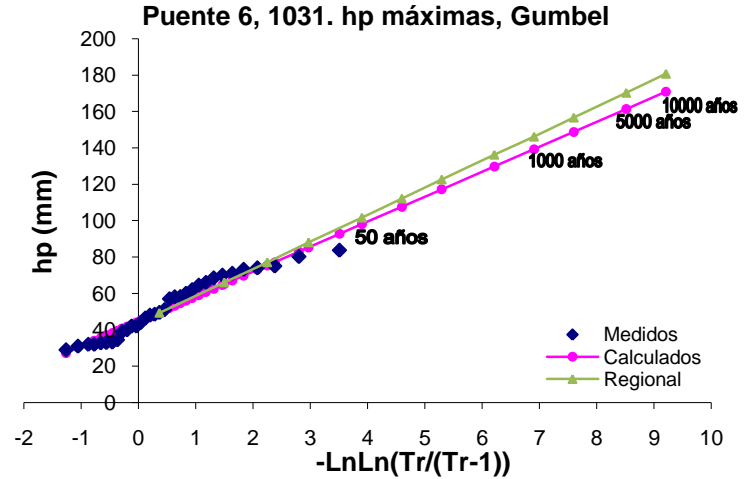


1030, Aguascalientes, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	44.33	44.07
5	59.07	59.08
10	68.83	68.93
20	78.18	78.77
50	90.3	90.96
100	99.38	100.34
200	108.42	109.72
500	120.35	121.91
1000	129.37	130.82
2000	138.38	140.20
5000	150.3	152.39
10000	159.31	161.76

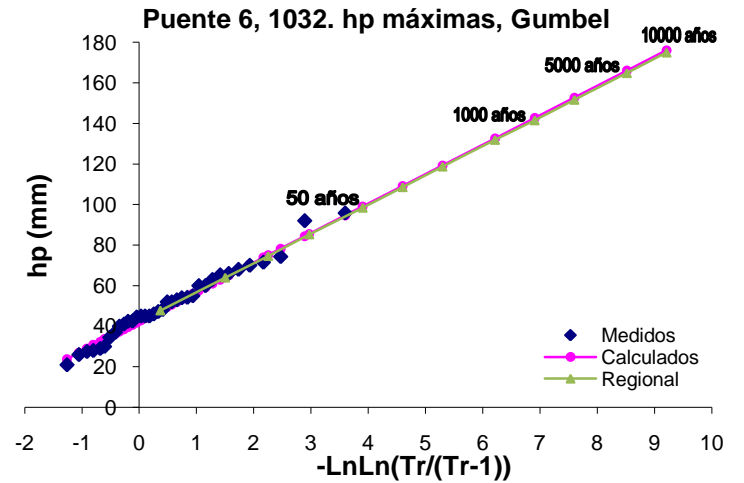


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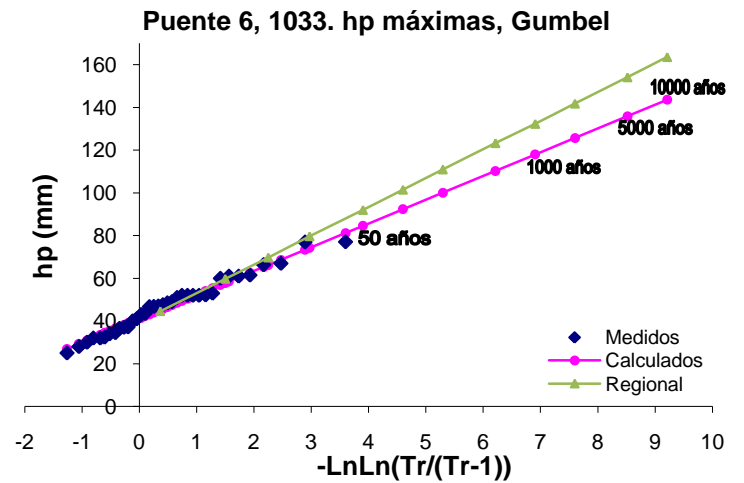
1031, El Novillo, El Llano		
Tr (años)	hp individual (mm)	hp regional (mm)
2	49.51	49.26
5	65.06	66.03
10	75.36	77.03
20	85.24	88.04
50	98.02	101.66
100	107.6	112.14
200	117.15	122.62
500	129.74	136.25
1000	139.26	146.20
2000	148.77	156.69
5000	161.34	170.31
10000	170.86	180.79



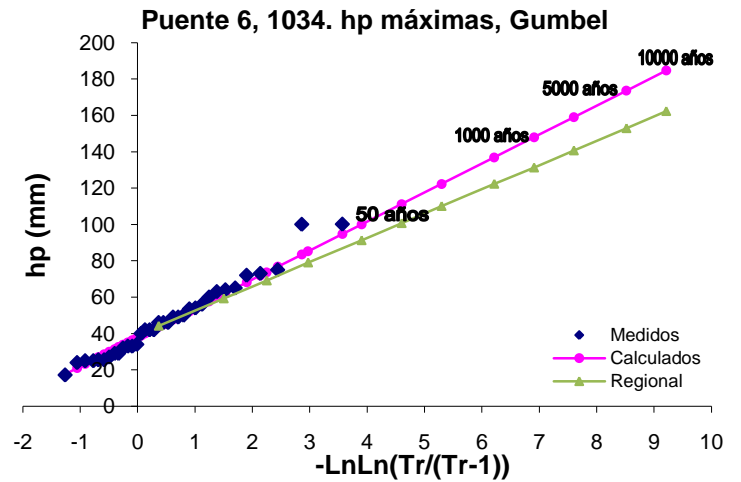
1032, Las Fraguas, El Llano		
Tr (años)	hp individual (mm)	hp regional (mm)
2	47.69	47.68
5	64.15	63.91
10	75.05	74.56
20	85.5	85.21
50	99.03	98.40
100	109.17	108.54
200	119.27	118.68
500	132.6	131.87
1000	142.67	141.51
2000	152.74	151.65
5000	166.05	164.84
10000	176.12	174.98



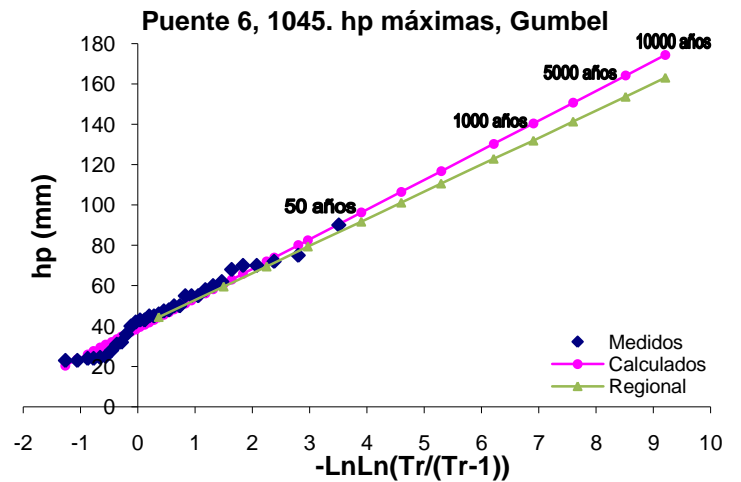
1033, Los Conos, El Llano		
Tr (años)	hp individual (mm)	hp regional (mm)
2	45.25	44.57
5	57.85	59.74
10	66.19	69.70
20	74.2	79.66
50	84.55	91.98
100	92.32	101.47
200	100.05	110.95
500	110.26	123.28
1000	117.97	132.28
2000	125.68	141.77
5000	135.87	154.10
10000	143.57	163.58



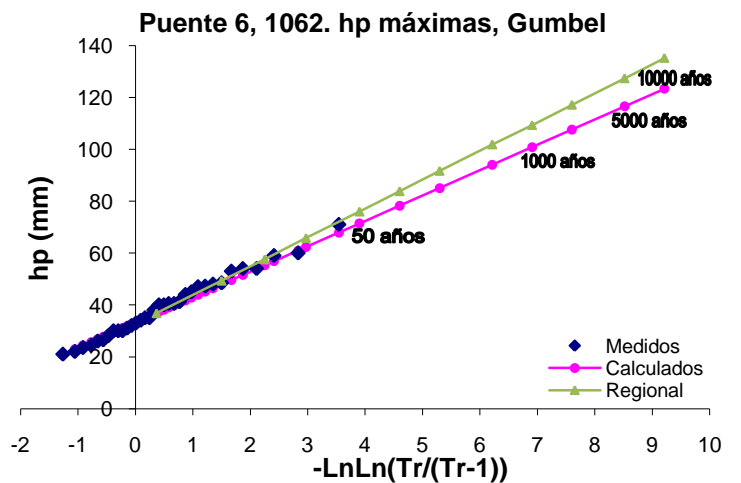
1034, Sandoval, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	43.69	44.23
5	61.76	59.28
10	73.72	69.17
20	85.2	79.05
50	100.05	91.28
100	111.18	100.69
200	122.27	110.10
500	136.9	122.33
1000	147.96	131.27
2000	159.01	140.68
5000	173.62	152.92
10000	184.67	162.33



1045, El Tule, Asientos		
Tr (años)	hp individual (mm)	hp regional (mm)
2	44.27	44.44
5	60.94	59.56
10	71.97	69.49
20	82.56	79.42
50	96.26	91.71
100	106.52	101.16
200	116.75	110.62
500	130.25	122.91
1000	140.45	131.89
2000	150.64	141.35
5000	164.12	153.64
10000	174.31	163.09

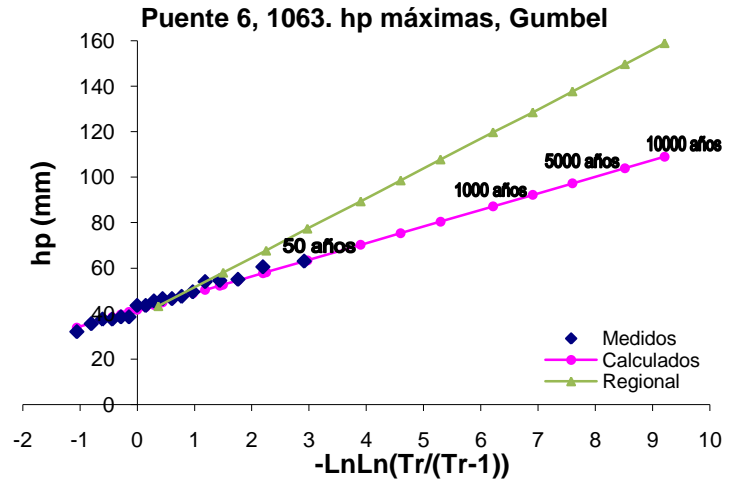


1062, Arellano, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	36.87	36.83
5	47.95	49.37
10	55.29	57.60
20	62.33	65.83
50	71.44	76.02
100	78.27	83.86
200	85.07	91.69
500	94.05	101.88
1000	100.83	109.33
2000	107.61	117.16
5000	116.57	127.35
10000	123.35	135.19

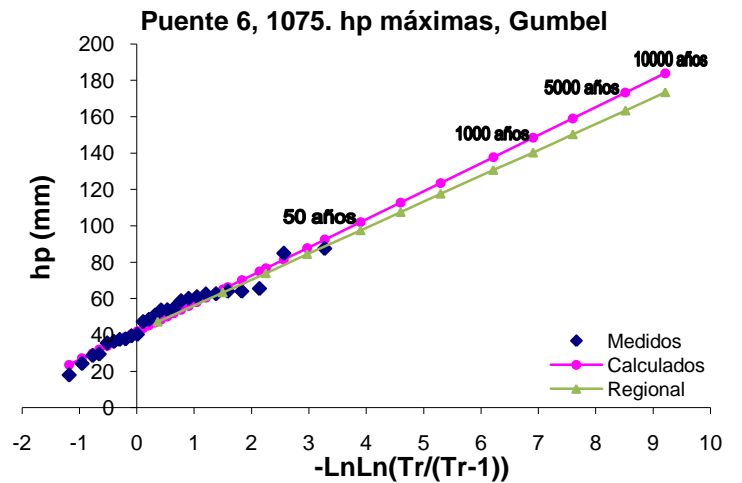


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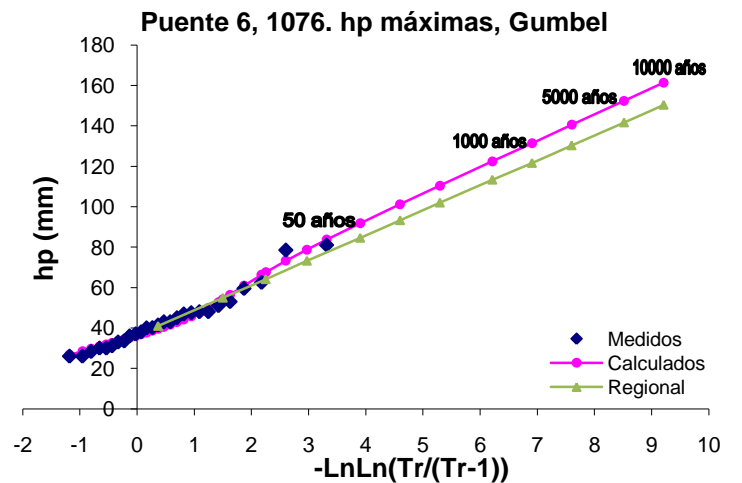
1063, Peñuelas, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	44.42	43.29
5	52.7	58.03
10	58.19	67.70
20	63.44	77.37
50	70.25	89.35
100	75.35	98.56
200	80.44	107.77
500	87.14	119.74
1000	92.21	128.50
2000	97.28	137.71
5000	103.97	149.68
10000	109.04	158.89



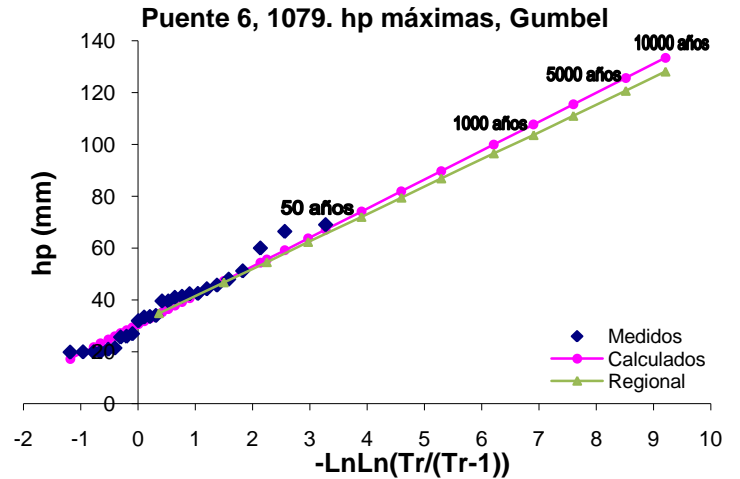
1075, Montoro, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	47.58	47.26
5	65.05	63.35
10	76.62	73.91
20	87.71	84.47
50	102.08	97.54
100	112.84	107.59
200	123.56	117.65
500	137.71	130.72
1000	148.41	140.27
2000	159.1	150.33
5000	173.22	163.40
10000	183.91	173.46



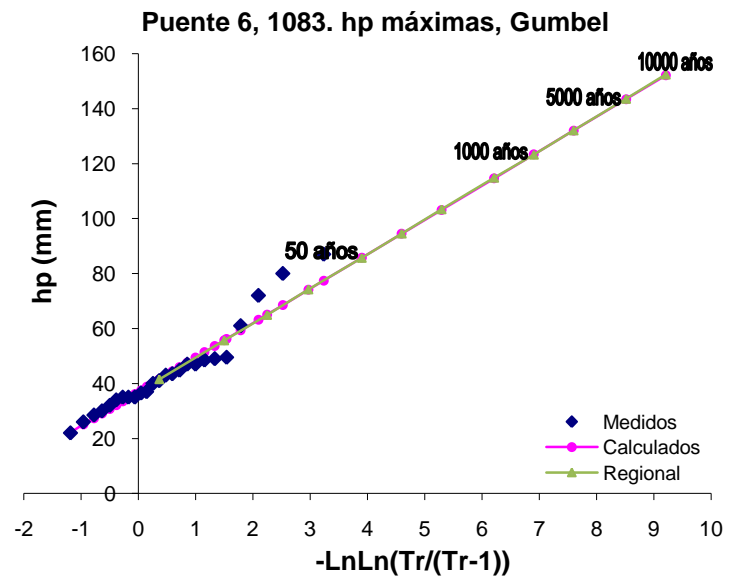
1076, Los Negritos, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	39.59	40.99
5	54.12	54.94
10	67.59	64.10
20	78.79	73.25
50	91.85	84.59
100	101.21	93.31
200	110.39	102.03
500	122.43	113.37
1000	131.44	121.65
2000	140.59	130.38
5000	152.41	141.71
10000	161.42	150.43



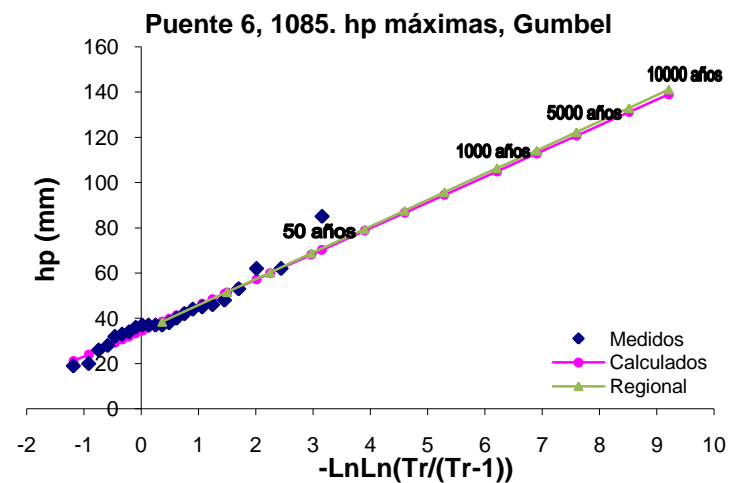
1079, Peñuelas, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	34.67	34.90
5	47.32	46.78
10	55.69	54.57
20	63.73	62.37
50	74.13	72.02
100	81.92	79.44
200	89.68	86.87
500	99.93	96.52
1000	107.67	103.57
2000	115.41	111.00
5000	125.63	120.65
10000	133.37	128.07



1083, San Fco. de los Romos, San Fco. de Romos		
Tr (años)	hp individual (mm)	hp regional (mm)
2	41.54	41.52
5	55.71	55.66
10	65.1	64.93
20	74.1	74.21
50	85.75	85.69
100	94.48	94.53
200	103.18	103.36
500	114.66	114.85
1000	123.34	123.24
2000	132.01	132.07
5000	143.47	143.56
10000	152.14	152.39

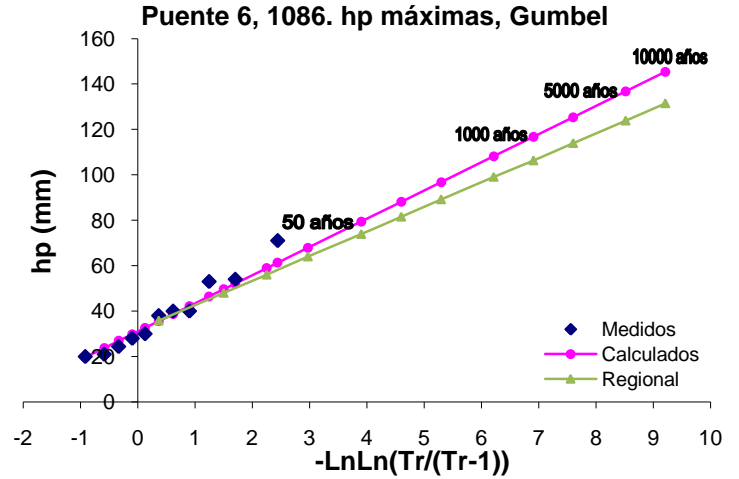


1085, Tepetatillo San Fco de los Romos		
Tr (años)	hp individual (mm)	hp regional (mm)
2	38.52	38.46
5	51.4	51.55
10	59.93	60.14
20	68.11	68.73
50	78.7	79.37
100	86.63	87.55
200	94.54	95.74
500	104.97	106.37
1000	112.85	114.15
2000	120.74	122.33
5000	131.15	132.97
10000	139.03	141.15

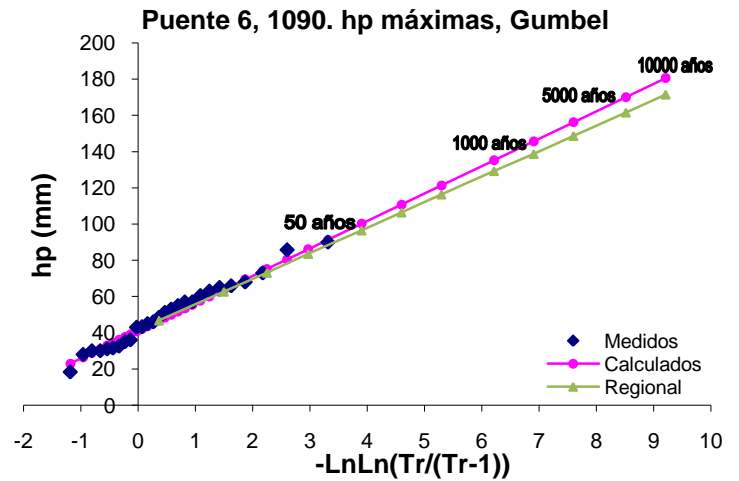


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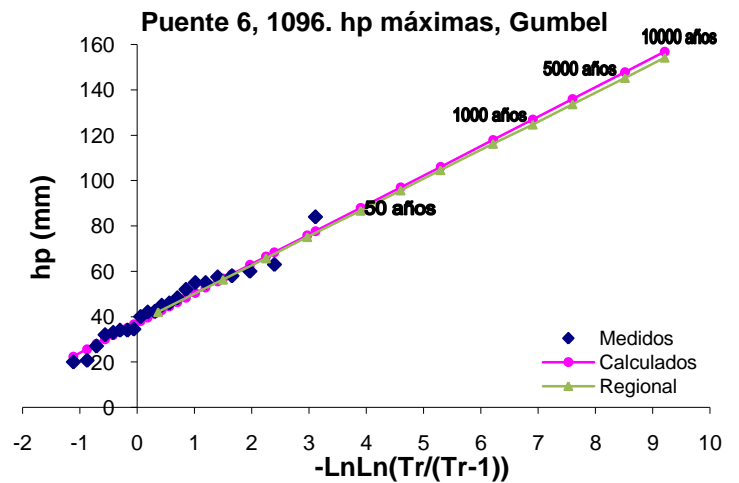
1086, Arellano, Aguascalientes (SRN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	35.51	35.84
5	49.59	48.04
10	58.92	56.05
20	67.86	64.05
50	79.44	73.97
100	88.12	81.59
200	96.76	89.22
500	108.17	99.13
1000	116.79	106.38
2000	125.4	114.00
5000	136.79	123.91
10000	145.41	131.54



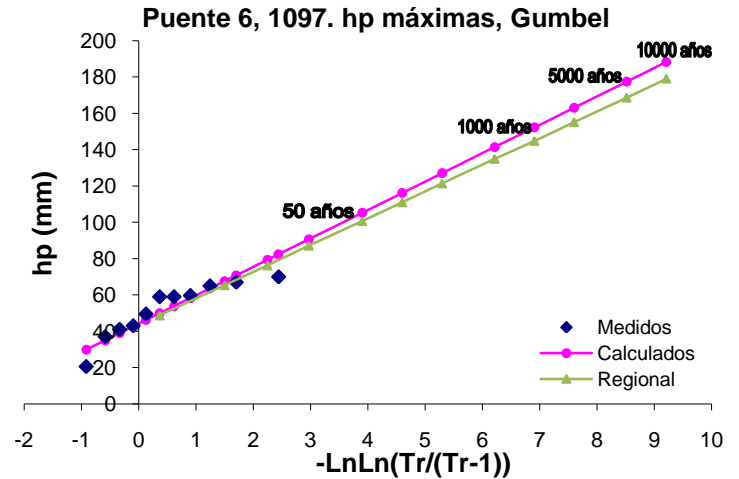
1090, Jesús María, Jesús María		
Tr (años)	hp individual (mm)	hp regional (mm)
2	46.68	46.74
5	63.84	62.65
10	75.2	73.09
20	86.1	83.53
50	100.2	96.46
100	110.77	106.41
200	121.31	116.35
500	135.2	129.28
1000	145.7	138.73
2000	156.2	148.67
5000	170.07	161.60
10000	180.57	171.54



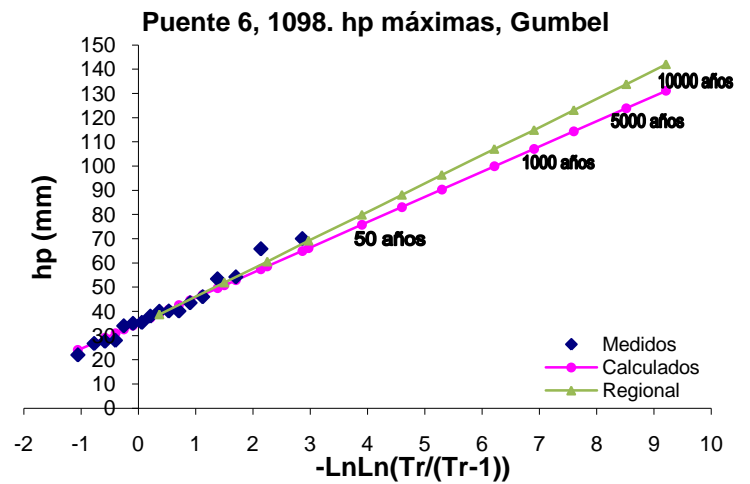
1096, Calvillito, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	42.04	42.01
5	56.76	56.32
10	66.5	65.70
20	75.85	75.09
50	87.95	86.71
100	97.02	95.65
200	106.05	104.59
500	117.97	116.21
1000	126.98	124.70
2000	135.99	133.64
5000	147.89	145.26
10000	156.89	154.20



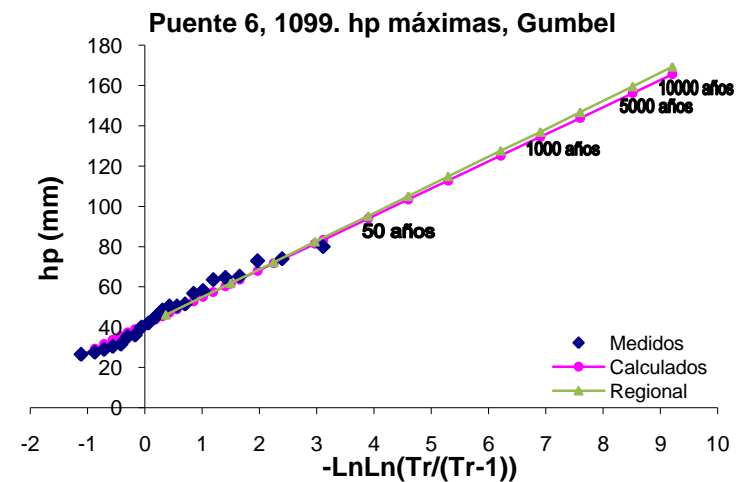
1097, Aguascalientes 2, Aguascalientes		
Tr (años)	hp individual (mm)	hp regional (mm)
2	49.88	48.77
5	67.62	65.37
10	79.36	76.27
20	90.63	87.16
50	105.21	100.65
100	116.14	111.03
200	127.03	121.40
500	141.39	134.89
1000	152.25	144.75
2000	163.1	155.13
5000	177.44	168.62
10000	188.29	178.99



1098, La Posta UAA, Jesús María		
Tr (años)	hp individual (mm)	hp regional (mm)
2	38.97	38.69
5	50.78	51.87
10	58.6	60.51
20	66.1	69.16
50	75.81	79.86
100	83.08	88.09
200	90.33	96.33
500	99.89	107.03
1000	107.12	114.85
2000	114.34	123.08
5000	123.89	133.79
10000	131.11	142.02

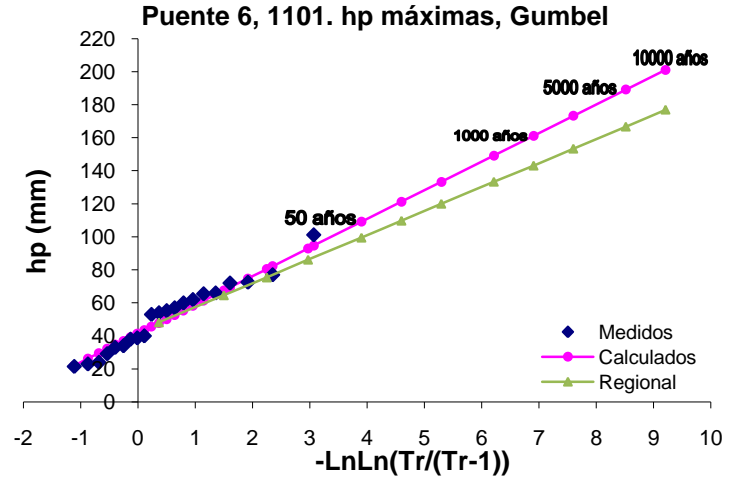


1099, Jesús Terán (El Muerto)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	46.29	46.13
5	61.57	61.84
10	71.7	72.14
20	81.41	82.45
50	93.98	95.21
100	103.4	105.03
200	112.78	114.84
500	125.16	127.60
1000	134.52	136.93
2000	143.87	146.74
5000	156.23	159.50
10000	165.59	169.32

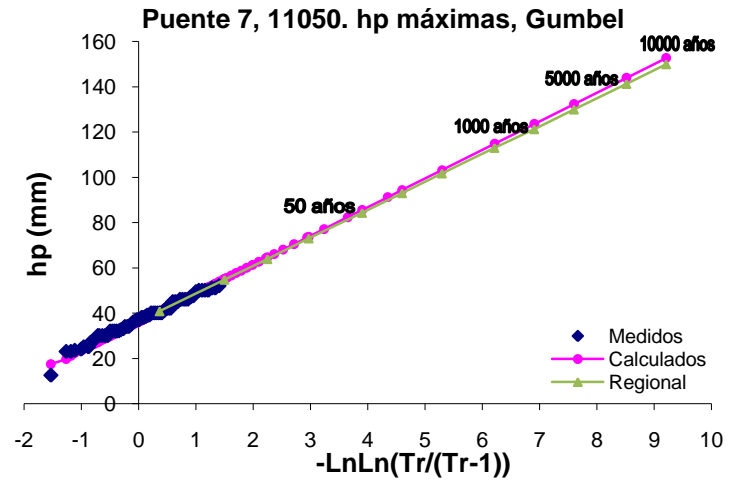


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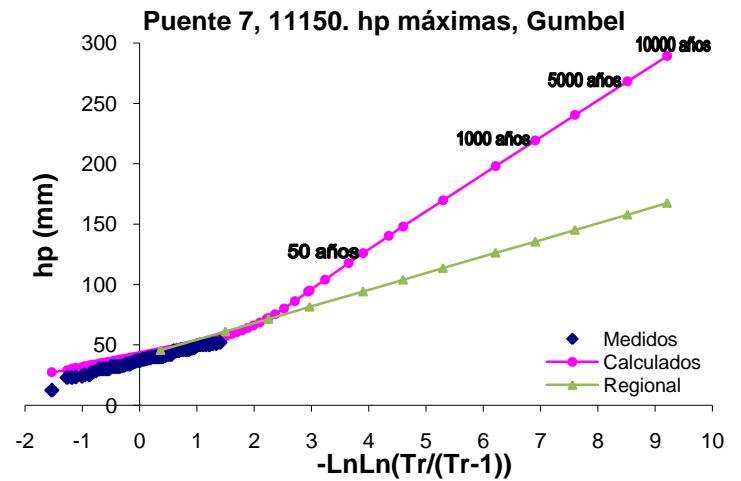
1101, Las Presas, El Llano		
Tr (años)	hp individual (mm)	hp regional (mm)
2	47.83	48.21
5	67.47	64.62
10	80.48	75.39
20	92.96	86.16
50	109.11	99.49
100	121.21	109.75
200	133.27	120.01
500	149.18	133.34
1000	161.2	143.09
2000	173.22	153.34
5000	189.11	166.68
10000	201.12	176.94



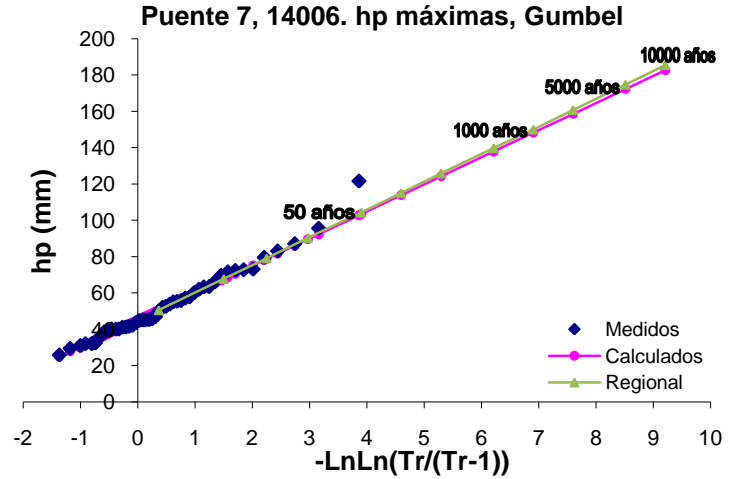
11050, Ocampo, Ocampo (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	40.78	40.84
5	55.13	54.74
10	64.63	63.87
20	73.74	72.99
50	85.53	84.29
100	94.37	92.98
200	103.17	101.67
500	114.79	112.96
1000	123.57	121.22
2000	132.35	129.91
5000	143.95	141.21
10000	152.72	149.90



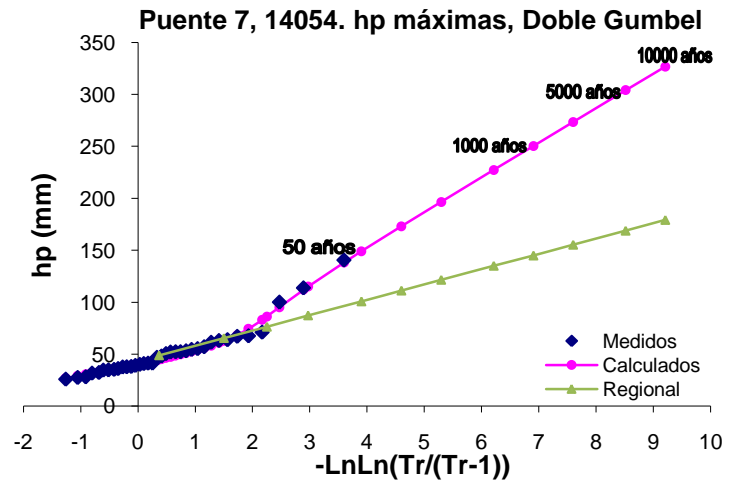
11150, San José el Alto, Abasolo		
Tr (años)	hp individual (mm)	hp regional (mm)
2	44.25	45.64
5	57.47	61.18
10	72.31	71.38
20	95.02	81.57
50	125.93	94.20
100	148.09	103.91
200	169.74	113.62
500	198.01	126.24
1000	219.21	135.47
2000	240.49	145.18
5000	268.31	157.81
10000	289.26	167.52



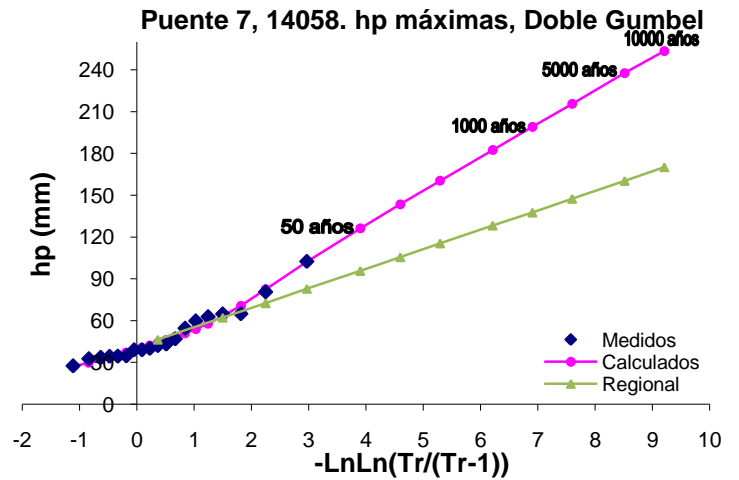
14006, Ajojuar, Teocaltiche		
Tr (años)	hp individual (mm)	hp regional (mm)
2	50.61	50.53
5	67.53	67.73
10	78.73	79.01
20	89.47	90.30
50	103.38	104.28
100	113.8	115.03
200	124.19	125.78
500	137.89	139.75
1000	148.24	149.97
2000	158.59	160.72
5000	172.27	174.69
10000	182.62	185.44



14054, El Puesto, L. de Moreno		
Tr (años)	hp individual (mm)	hp regional (mm)
2	44.84	48.82
5	62.69	65.44
10	86.24	76.35
20	115.03	87.26
50	148.98	100.76
100	173.04	111.15
200	196.51	121.54
500	227.23	135.04
1000	250.35	144.91
2000	273.47	155.30
5000	304.05	168.80
10000	326.82	179.19

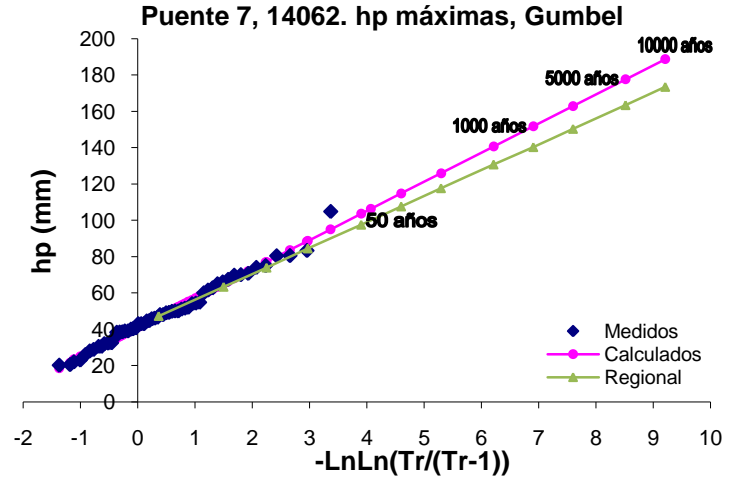


14058, El Tecuan, E. de Díaz		
Tr (años)	hp individual (mm)	hp regional (mm)
2	44.05	46.35
5	63.08	62.13
10	82.47	72.49
20	102.23	82.84
50	126.21	95.66
100	143.47	105.52
200	160.37	115.39
500	182.46	128.21
1000	199.04	137.58
2000	215.5	147.44
5000	237.61	160.26
10000	253.55	170.12

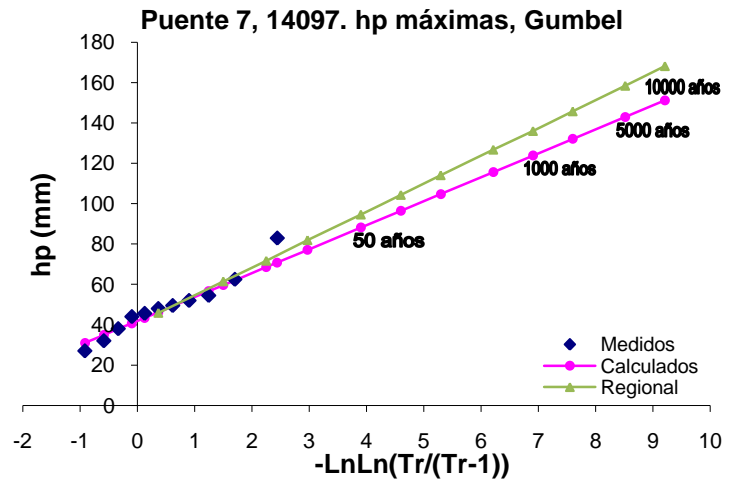


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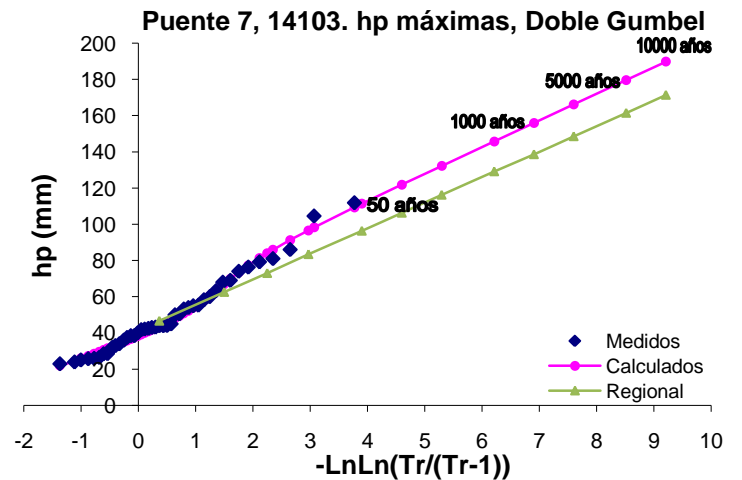
14062, Encarnación de Díaz		
Tr (años)	hp individual (mm)	hp regional (mm)
2	46.89	47.25
5	65.06	63.34
10	77.09	73.89
20	88.63	84.45
50	103.57	97.52
100	114.77	107.57
200	125.92	117.63
500	140.63	130.69
1000	151.76	140.25
2000	162.87	150.30
5000	177.57	163.37
10000	188.68	173.42



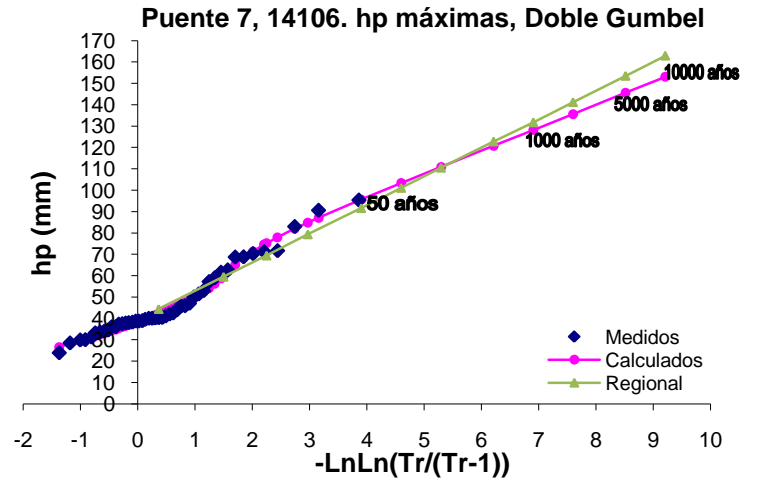
14097, Matanzas, Ojuelos de J.		
Tr (años)	hp individual (mm)	hp regional (mm)
2	46.19	45.81
5	59.64	61.41
10	68.55	71.64
20	77.1	81.88
50	88.16	94.55
100	96.45	104.30
200	104.71	114.04
500	115.61	126.71
1000	123.85	135.97
2000	132.08	145.72
5000	142.96	158.39
10000	151.19	168.14



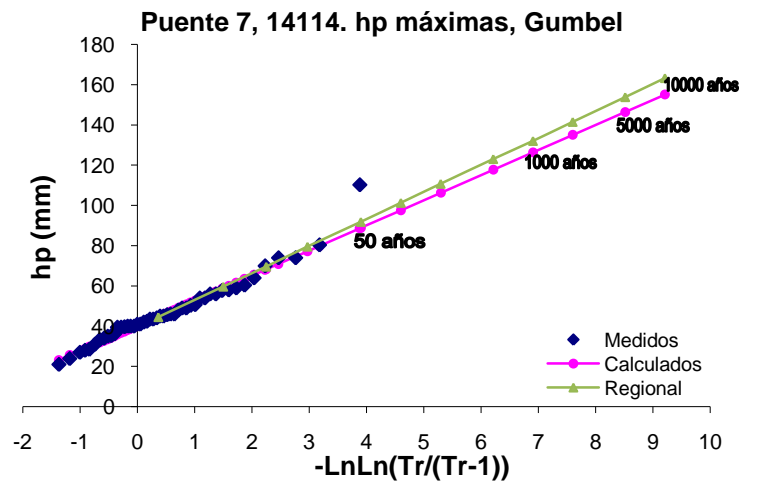
14103, Ocotlán, Ocotlán (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	43.7	46.70
5	67.03	62.59
10	84.01	73.02
20	96.64	83.46
50	111.31	96.37
100	121.84	106.31
200	132.19	116.24
500	145.73	129.16
1000	155.96	138.60
2000	166.18	148.53
5000	179.61	161.45
10000	189.83	171.38



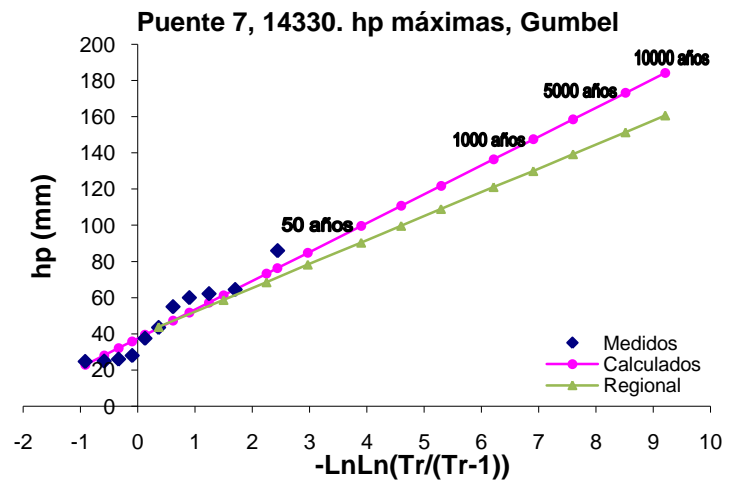
14106, Paso de Cuarenta		
Tr (años)	hp individual (mm)	hp regional (mm)
2	42.1	44.39
5	59.98	59.50
10	75.22	69.41
20	84.84	79.33
50	95.66	91.61
100	103.37	101.05
200	110.91	110.49
500	120.78	122.77
1000	128.19	131.74
2000	135.63	141.19
5000	145.62	153.46
10000	153.06	162.91



14114, Presa la Duquesa		
Tr (años)	hp individual (mm)	hp regional (mm)
2	44.7	44.49
5	58.85	59.63
10	68.22	69.57
20	77.2	79.51
50	88.83	91.82
100	97.55	101.28
200	106.23	110.75
500	117.69	123.06
1000	126.35	132.05
2000	135.01	141.51
5000	146.45	153.82
10000	155.1	163.29

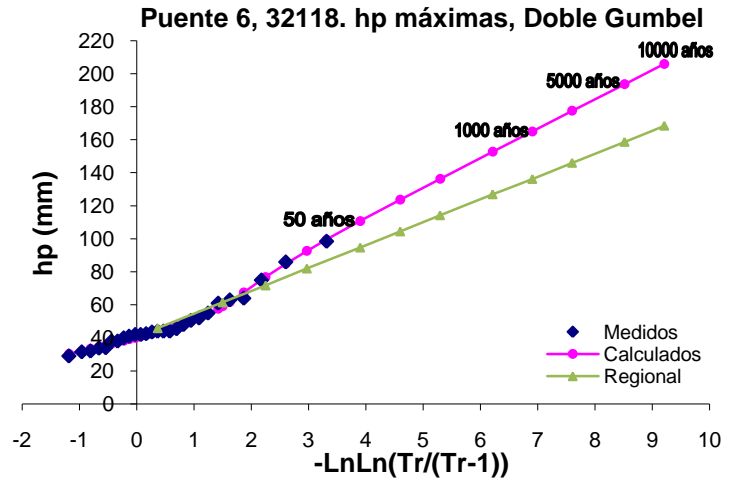


14330, Sauces Chicos, E. de Díaz		
Tr (años)	hp individual (mm)	hp regional (mm)
2	43.22	43.78
5	61.28	58.68
10	73.25	68.46
20	84.72	78.24
50	99.57	90.35
100	110.7	99.67
200	121.79	108.98
500	136.42	121.09
1000	147.48	129.94
2000	158.53	139.25
5000	173.14	151.36
10000	184.19	160.68



ANEXOS

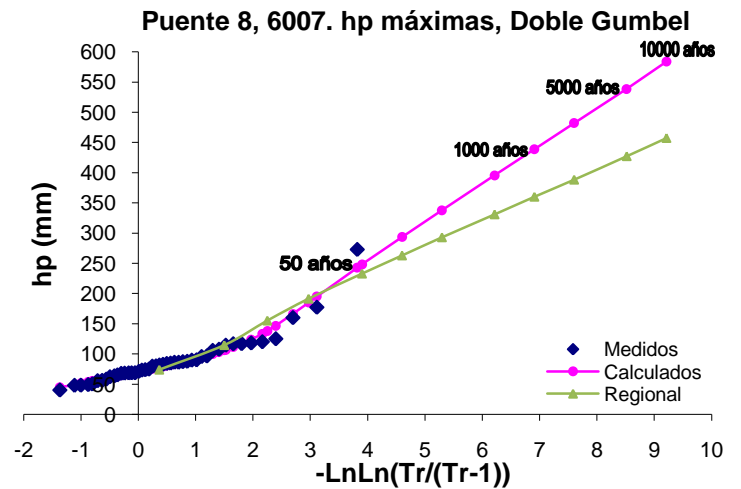
32118, Los Campos, Villa García		
Tr (años)	hp individual (mm)	hp regional (mm)
2	49.48	45.88
5	72.4	61.49
10	87.57	71.74
20	102.12	81.99
50	120.96	94.68
100	135.08	104.44
200	149.15	114.20
500	167.7	126.89
1000	181.73	136.16
2000	195.75	145.92
5000	214.28	158.61
10000	228.29	168.37



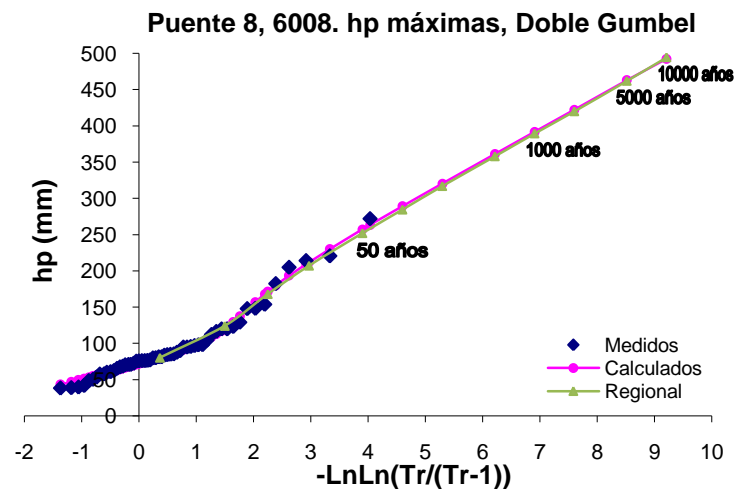
ANEXO G

En las tablas siguientes se presentan los resultados de la extrapolación de las precipitaciones máximas anuales para varios periodos de retorno de cada una de las estaciones consideradas para el análisis climatológico del Puente 8. Para cada estación también se presentan las gráficas de ajuste del análisis individual así como del resultado obtenido con la regionalización.

6007, Comala, Comala		
Tr (años)	hp individual (mm)	hp regional (mm)
2	78	74.2
5	106	114.8
10	138	155.4
20	185	191.6
50	248	233.1
100	293	263.1
200	338	293.1
500	396	331.1
1000	439	360.2
2000	482	388.5
5000	538	427.3
10000	584	457.3

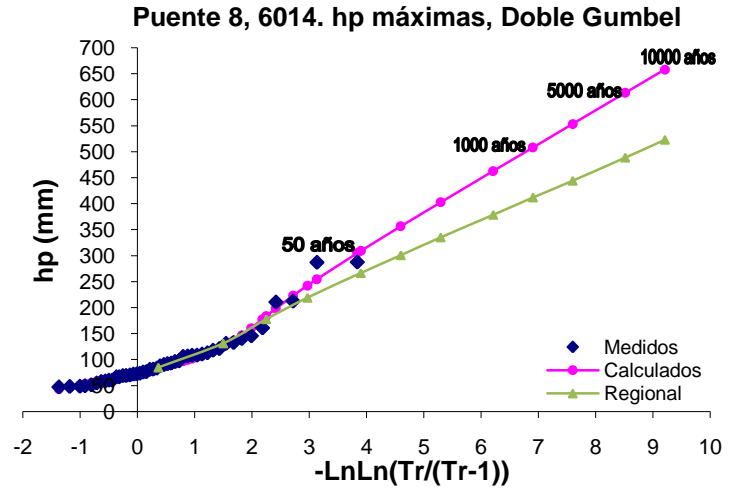


6008, Coquimatlán, Coquimatlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	80.35	80.2
5	120.41	124.1
10	171.52	168.0
20	211.97	207.1
50	257.16	252.0
100	289.16	284.4
200	320.42	316.9
500	361.23	357.9
1000	391.83	389.4
2000	422.2	419.9
5000	463.01	461.9
10000	492.43	494.4

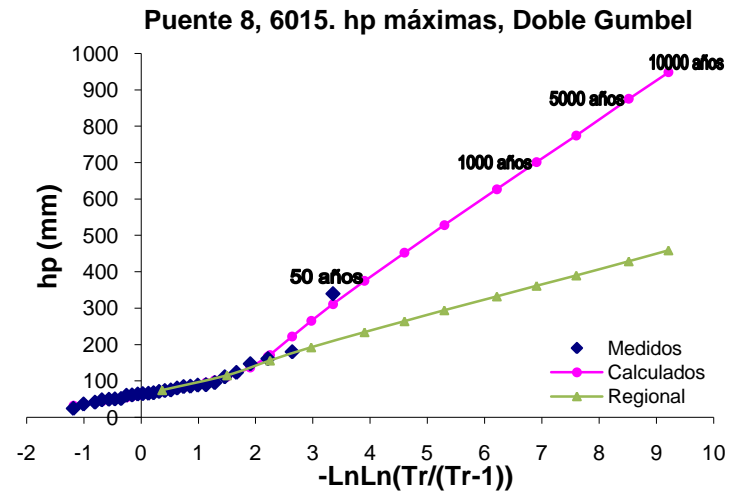


ANEXOS

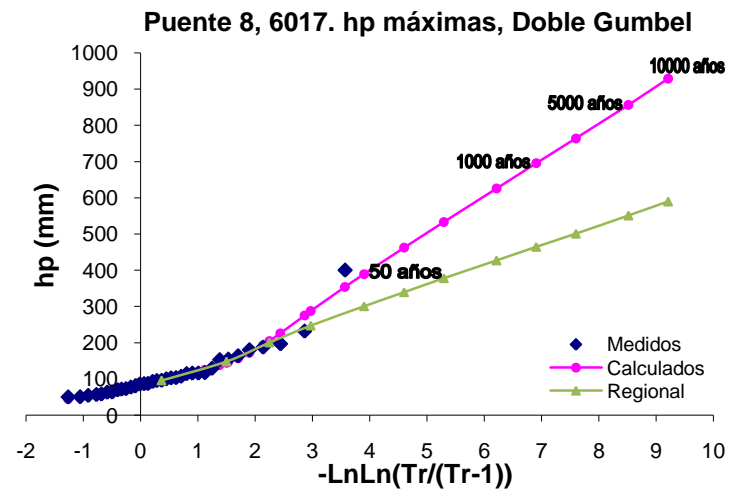
6014, Las Peñitas, Comala		
Tr (años)	hp individual (mm)	hp regional (mm)
2	84	84.77
5	126	131.19
10	183	177.61
20	242	218.99
50	309	266.42
100	357	300.73
200	403	335.04
500	463	378.43
1000	508	411.73
2000	553	444.03
5000	613	488.43
10000	658	522.74



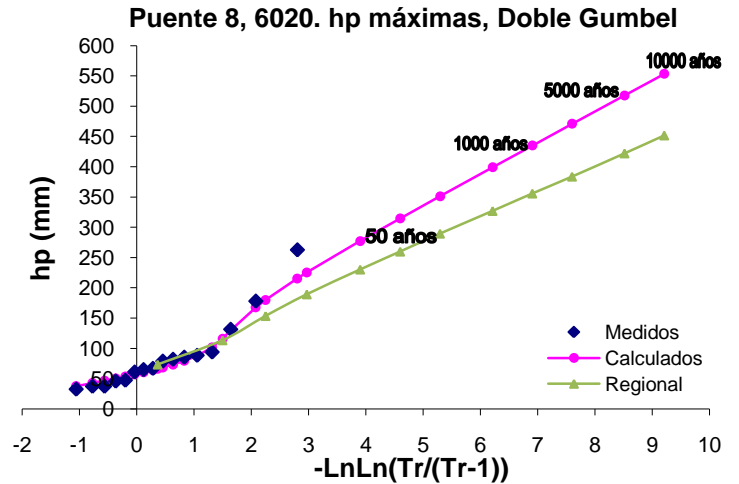
6015, Los Ortices, Colima		
Tr (años)	hp individual (mm)	hp regional (mm)
2	71.47	74.43
5	111.06	115.19
10	171.08	155.95
20	264.96	192.28
50	374.83	233.92
100	452.41	264.05
200	528.10	294.18
500	626.64	332.28
1000	701.48	361.52
2000	774.60	389.87
5000	875.14	428.86
10000	948.26	458.99



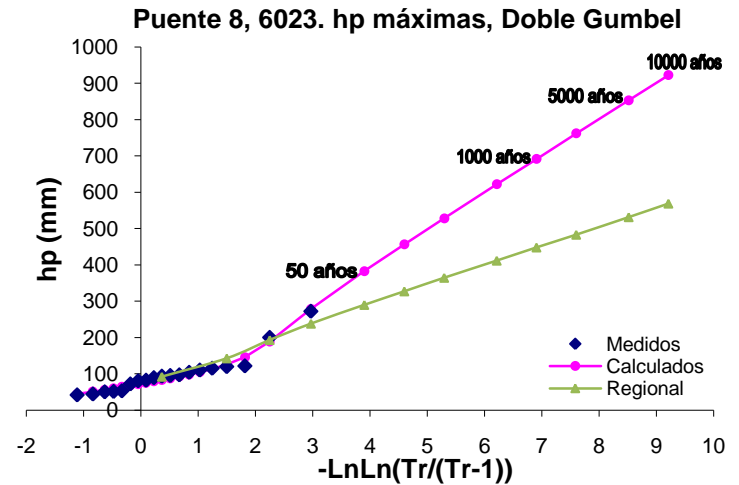
6017, Madrid, Tecoman		
Tr (años)	hp individual (mm)	hp regional (mm)
2	95.71	95.64
5	144.38	148.01
10	204.66	200.39
20	287.35	247.07
50	389.54	300.58
100	462.20	339.29
200	533.19	378.01
500	625.69	426.96
1000	695.41	464.54
2000	764.05	500.97
5000	856.29	551.07
10000	929.22	589.78



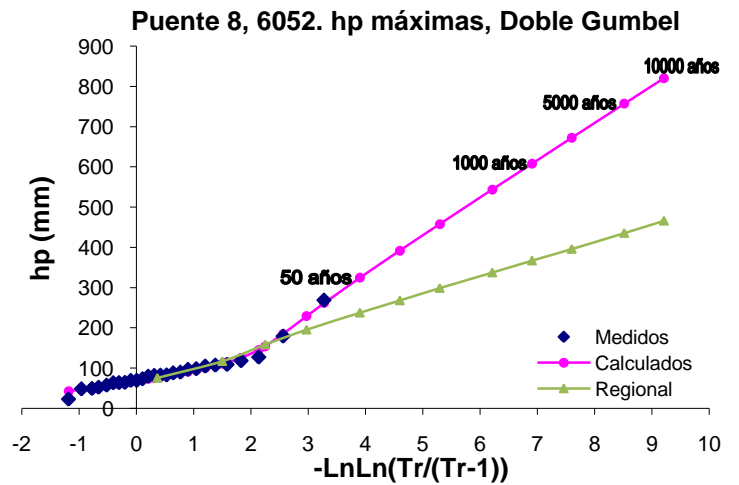
6020, Pueblo Juárez, Comatlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	66.27	73.25
5	116.15	113.37
10	180.07	153.48
20	225.33	189.24
50	277.31	230.22
100	314.60	259.87
200	351.12	289.52
500	398.99	327.02
1000	435.03	355.80
2000	470.92	383.71
5000	517.68	422.08
10000	553.30	451.73



6023, Rancho Papaloapan, Tecoman		
Tr (años)	hp individual (mm)	hp regional (mm)
2	83.27	92.25
5	125.79	142.76
10	189.23	193.28
20	278.78	238.30
50	382.86	289.91
100	456.39	327.25
200	528.05	364.59
500	621.80	411.81
1000	691.70	448.05
2000	762.15	483.19
5000	853.19	531.51
10000	922.55	568.85

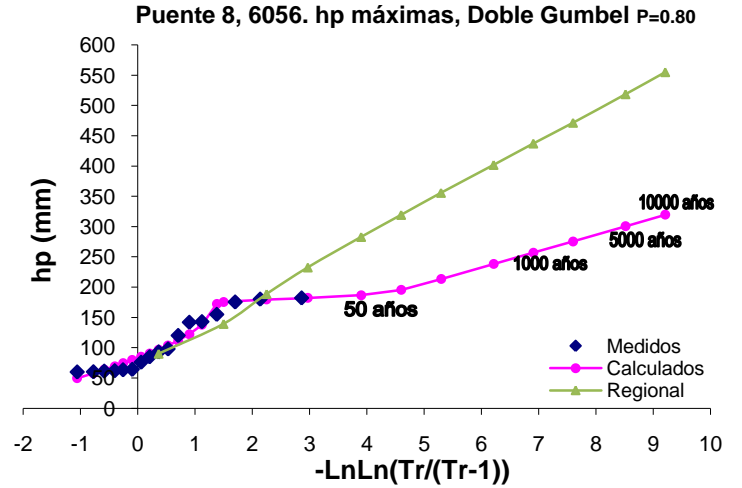


6052, E.T.A. 254, Comala		
Tr (años)	hp individual (mm)	hp regional (mm)
2	77.39	75.61
5	110.59	117.02
10	154.06	158.42
20	229.25	195.33
50	324.46	237.63
100	391.84	268.23
200	457.61	298.84
500	543.47	337.54
1000	608.00	367.25
2000	672.53	396.05
5000	756.91	435.66
10000	820.44	466.26

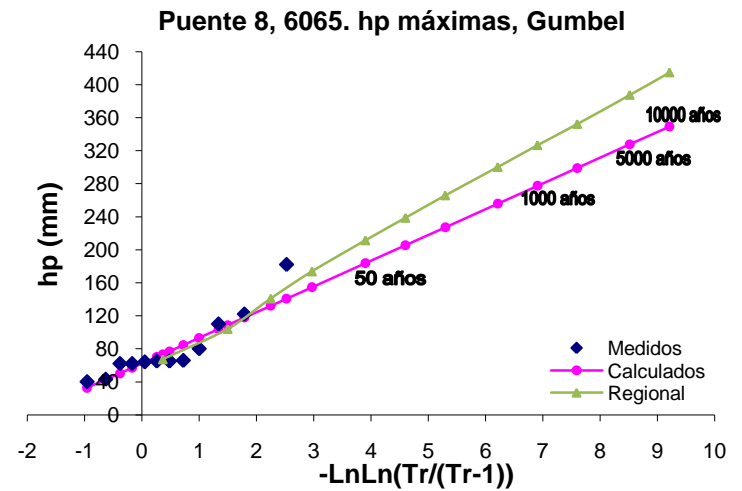


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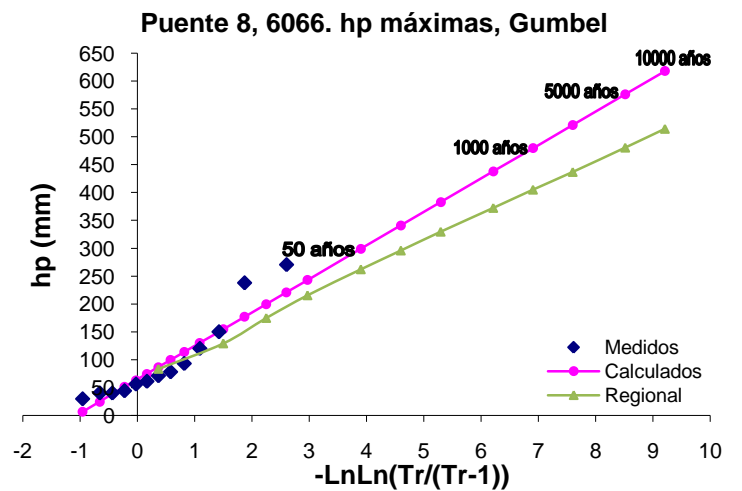
6056, Canoas, Toliman		
Tr (años)	hp individual (mm)	hp regional (mm)
2	96.49	90.00
5	175.52	139.28
10	179.44	188.57
20	182.23	232.50
50	186.80	282.85
100	195.29	319.28
200	213.34	355.71
500	238.17	401.78
1000	257.02	437.14
2000	275.61	471.42
5000	300.56	518.56
10000	319.68	554.99



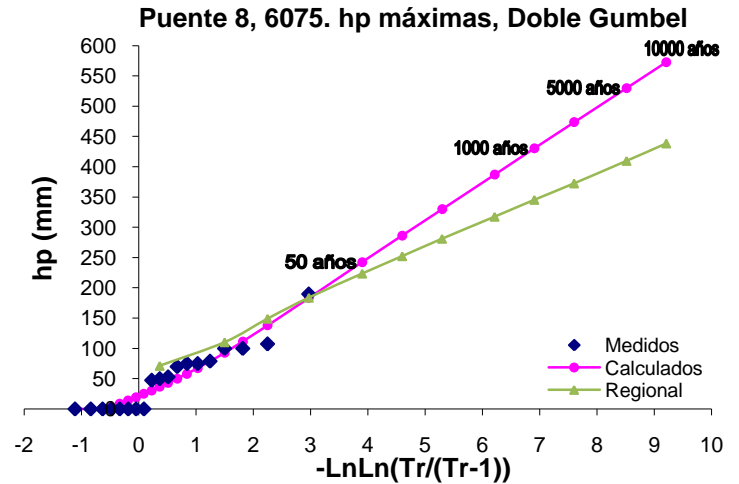
6065, Mixcuate, Villa Juárez		
Tr (años)	hp individual (mm)	hp regional (mm)
2	73.50	67.26
5	108.84	104.09
10	132.24	140.92
20	154.69	173.74
50	183.74	211.38
100	205.51	238.60
200	227.21	265.82
500	255.83	300.25
1000	277.46	326.67
2000	299.08	352.29
5000	327.65	387.52
10000	349.27	414.75



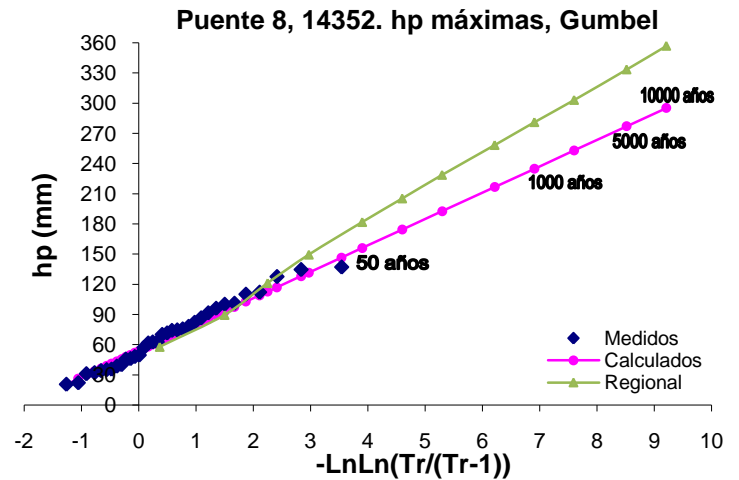
6066, El Terreno, Minatitlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	86.67	83.43
5	154.75	129.12
10	199.83	174.81
20	243.07	215.53
50	299.03	262.21
100	340.97	295.98
200	382.76	329.75
500	437.89	372.46
1000	479.55	405.24
2000	521.20	437.02
5000	576.25	480.72
10000	617.89	514.49



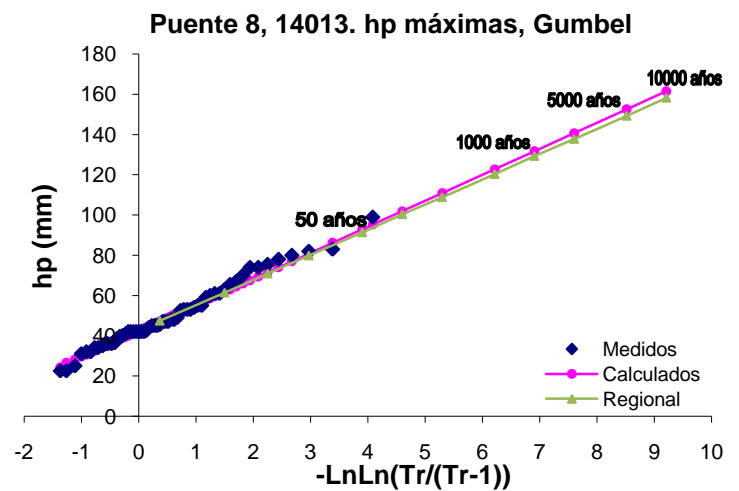
6075, El Algodonal, Coquimatlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	36.44	71.12
5	92.61	110.07
10	137.95	149.01
20	183.56	183.73
50	242.47	223.52
100	286.29	252.31
200	329.82	281.09
500	387.02	317.50
1000	430.51	345.44
2000	473.66	372.53
5000	529.86	409.79
10000	572.67	438.57



14352, Zapotitlán, Zapotitlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	63.34	57.87
5	93.07	89.57
10	112.74	121.26
20	131.62	149.51
50	156.05	181.89
100	174.36	205.31
200	192.60	228.74
500	216.67	258.36
1000	234.86	281.10
2000	253.04	303.15
5000	277.07	333.46
10000	295.25	356.89

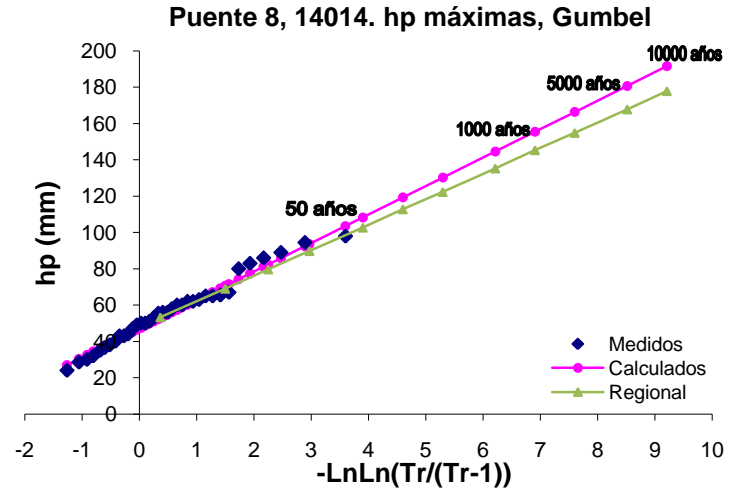


14013, Atemajac de Brisuela		
Tr (años)	hp individual (mm)	hp regional (mm)
2	47.19	47.44
5	61.84	61.42
10	71.54	70.91
20	80.84	79.89
50	92.88	91.38
100	101.90	100.37
200	110.89	108.86
500	122.75	120.34
1000	131.72	129.33
2000	140.68	137.82
5000	152.52	149.30
10000	161.48	158.29

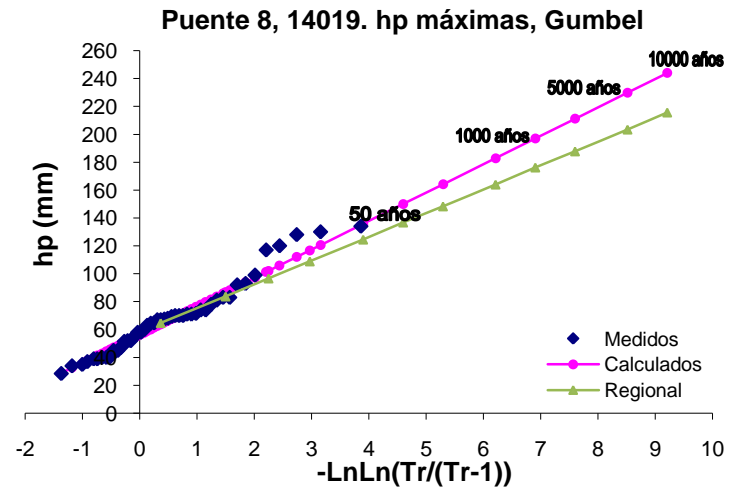


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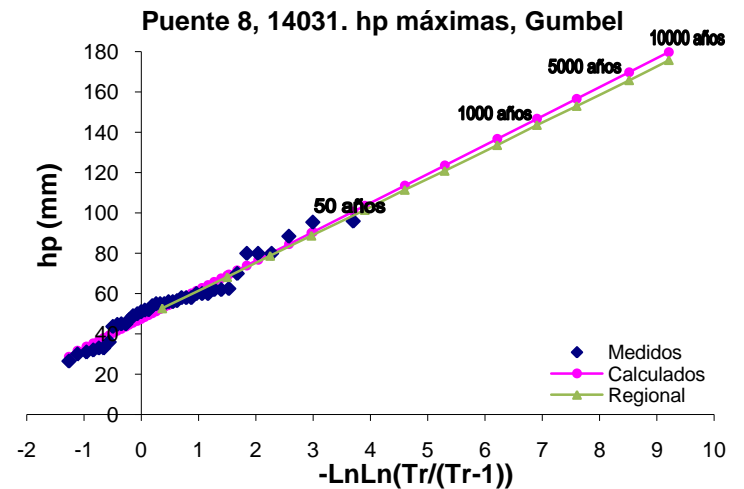
14014, Atengo, Atengo (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	52.83	53.29
5	70.62	69.00
10	82.39	79.66
20	93.69	89.76
50	108.30	102.66
100	119.26	112.76
200	130.17	122.29
500	144.57	135.19
1000	155.46	145.29
2000	166.34	154.83
5000	180.72	167.73
10000	191.59	177.83



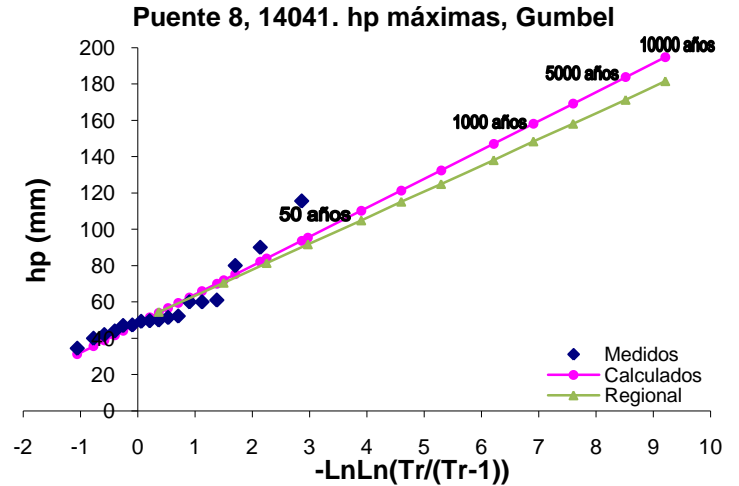
14019, Autlán, Autlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	63.73	64.62
5	86.83	83.67
10	102.13	96.59
20	116.81	108.84
50	135.80	124.48
100	150.03	136.73
200	164.21	148.29
500	182.92	163.94
1000	197.06	176.18
2000	211.20	187.74
5000	229.88	203.39
10000	244.01	215.63



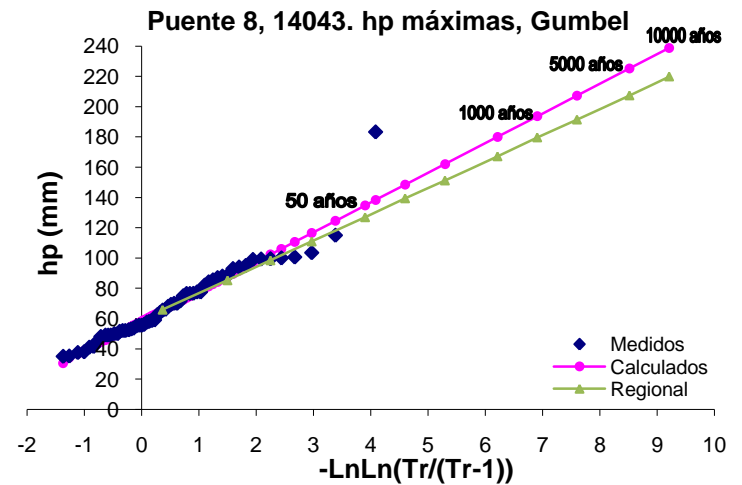
14031, Venustiano Carranza		
Tr (años)	hp individual (mm)	hp regional (mm)
2	52.76	52.69
5	69.05	68.23
10	79.83	78.76
20	90.17	88.75
50	103.56	101.51
100	113.60	111.49
200	123.59	120.92
500	136.78	133.68
1000	146.75	143.66
2000	156.71	153.09
5000	169.88	165.85
10000	179.84	175.83



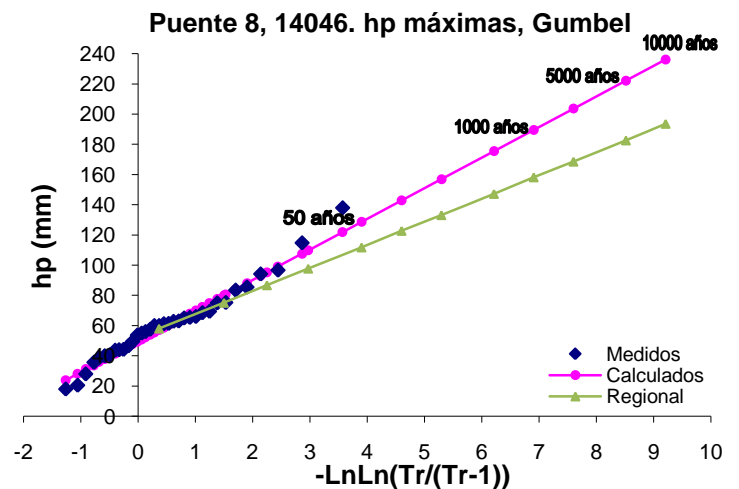
14041, Chiquilistlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	53.93	54.42
5	71.98	70.46
10	83.93	81.34
20	95.39	91.65
50	110.23	104.83
100	121.35	115.14
200	132.43	124.88
500	147.04	138.05
1000	158.09	148.36
2000	169.13	158.10
5000	183.72	171.27
10000	194.76	181.59



14043, Ejutla, Ejutla		
Tr (años)	hp individual (mm)	hp regional (mm)
2	65.39	65.90
5	87.62	85.32
10	102.34	98.50
20	116.46	110.98
50	134.73	126.93
100	148.42	139.42
200	162.07	151.21
500	180.07	167.17
1000	193.67	179.65
2000	207.27	191.44
5000	225.24	207.40
10000	238.84	219.88

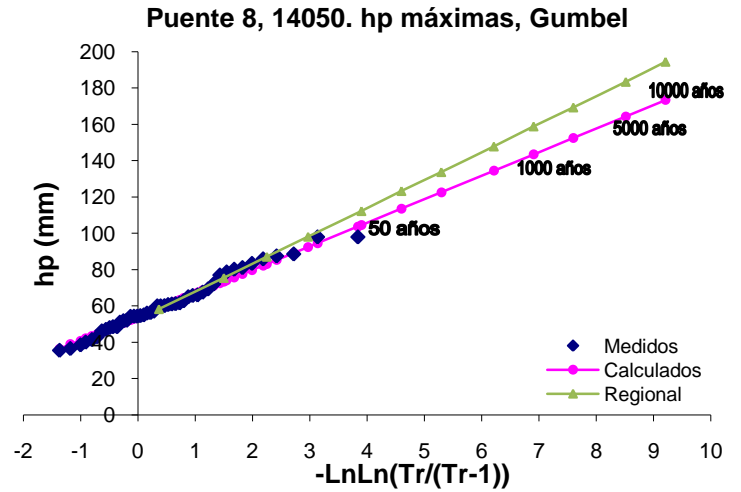


14046, El Chante, Aultlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	57.04	58.01
5	80.00	75.10
10	95.21	86.71
20	109.79	97.70
50	128.67	111.74
100	142.82	122.73
200	156.91	133.11
500	175.51	147.15
1000	189.56	158.15
2000	203.61	168.53
5000	222.18	182.57
10000	236.22	193.56

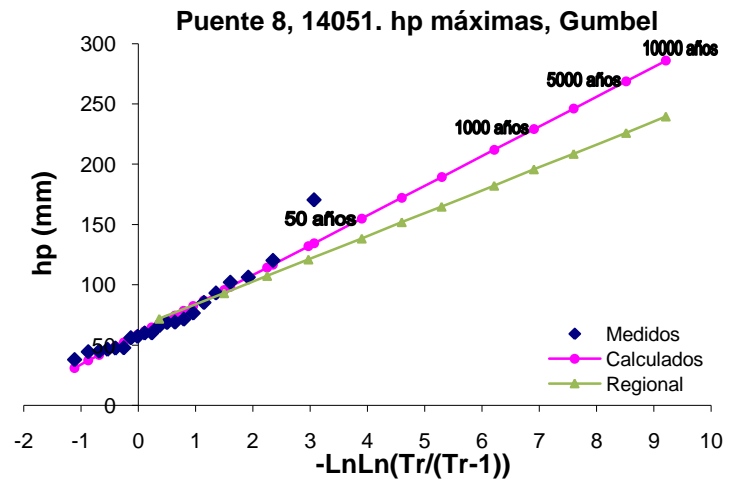


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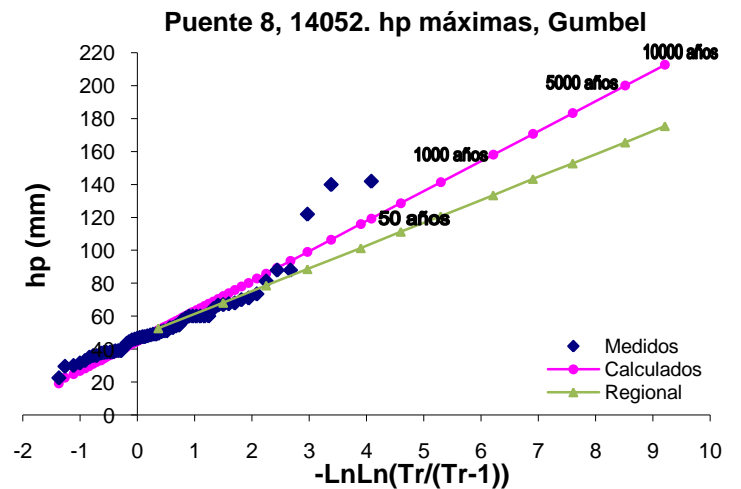
14050, El Grullo, El Grullo		
Tr (años)	hp individual (mm)	hp regional (mm)
2	58.64	58.26
5	73.34	75.43
10	83.07	87.08
20	92.41	98.12
50	104.49	112.23
100	113.54	123.27
200	122.56	133.69
500	134.47	147.80
1000	143.46	158.83
2000	152.45	169.26
5000	164.34	183.37
10000	173.33	194.40



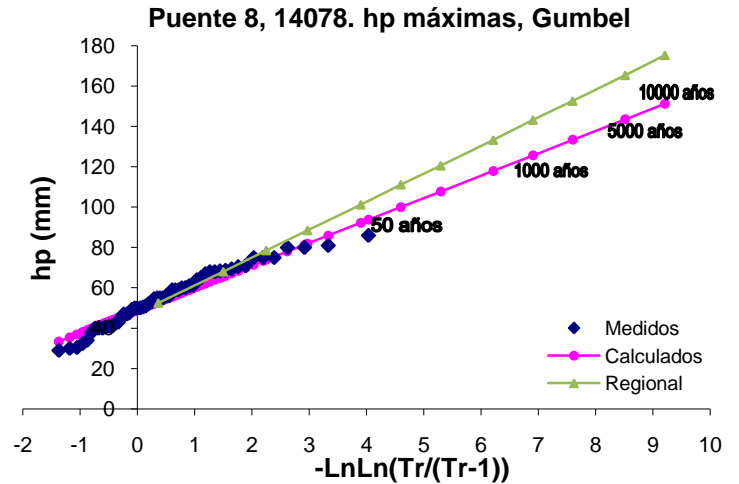
14051, El Limón, El Limón (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	67.76	71.79
5	95.71	92.95
10	114.22	107.31
20	131.97	120.91
50	154.95	138.29
100	172.17	151.89
200	189.32	164.74
500	211.96	182.12
1000	229.06	195.72
2000	246.16	208.57
5000	268.77	225.95
10000	285.86	239.55



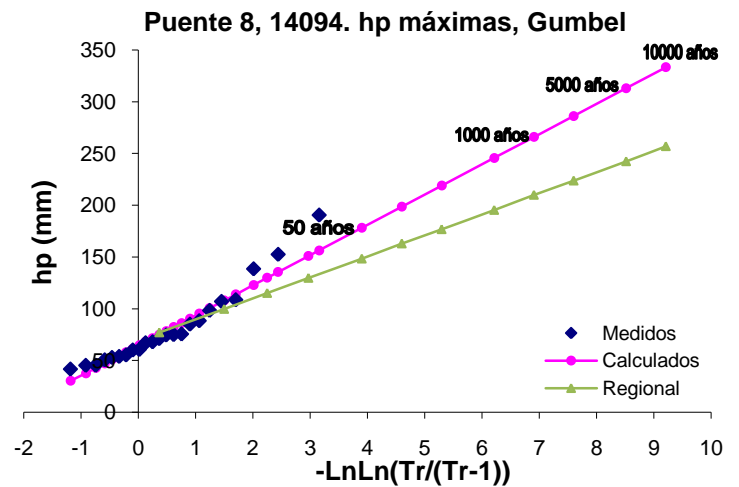
14052, El Nogal, Tapalpa		
Tr (años)	hp individual (mm)	hp regional (mm)
2	51.52	52.59
5	72.17	68.09
10	85.84	78.61
20	98.95	88.58
50	115.93	101.31
100	128.64	111.28
200	141.32	120.69
500	158.03	133.42
1000	170.67	143.39
2000	183.3	152.80
5000	199.99	165.53
10000	212.62	175.49



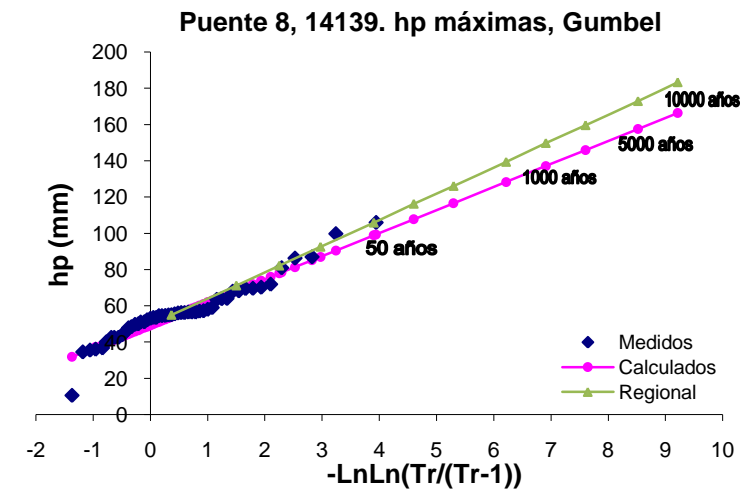
14078, Juchitlán, Juchitlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	52.96	52.53
5	65.55	68.02
10	73.89	78.52
20	81.88	88.48
50	92.23	101.20
100	99.99	111.15
200	107.71	120.55
500	117.91	133.27
1000	125.62	143.22
2000	133.32	152.62
5000	143.50	165.34
10000	151.20	175.30



14094, Manantlán, Autlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	74.91	77.01
5	108.02	99.70
10	129.95	115.11
20	150.98	129.70
50	178.21	148.34
100	198.61	162.93
200	218.93	176.71
500	245.75	195.36
1000	266.02	209.95
2000	286.28	223.73
5000	313.06	242.37
10000	333.31	256.96

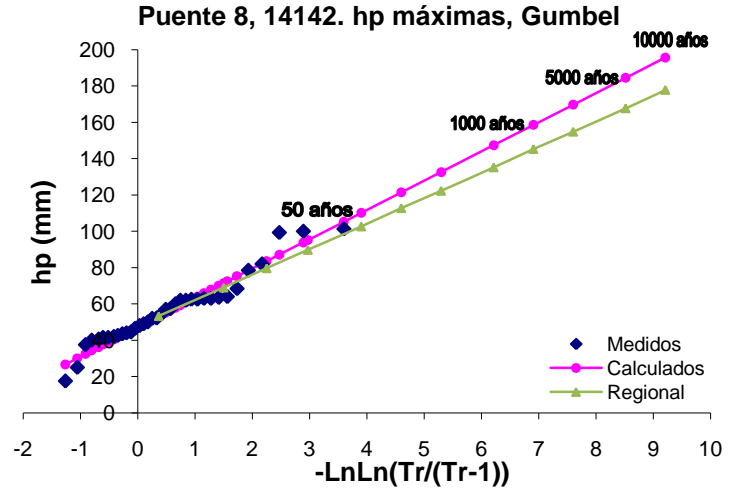


14139, Tacotan, Unión de Tula		
Tr (años)	hp individual (mm)	hp regional (mm)
2	53.94	54.92
5	68.35	71.11
10	77.89	82.10
20	87.04	92.50
50	98.89	105.80
100	107.77	116.21
200	116.61	126.04
500	128.28	139.33
1000	137.10	149.74
2000	145.92	159.57
5000	157.57	172.86
10000	166.38	183.27

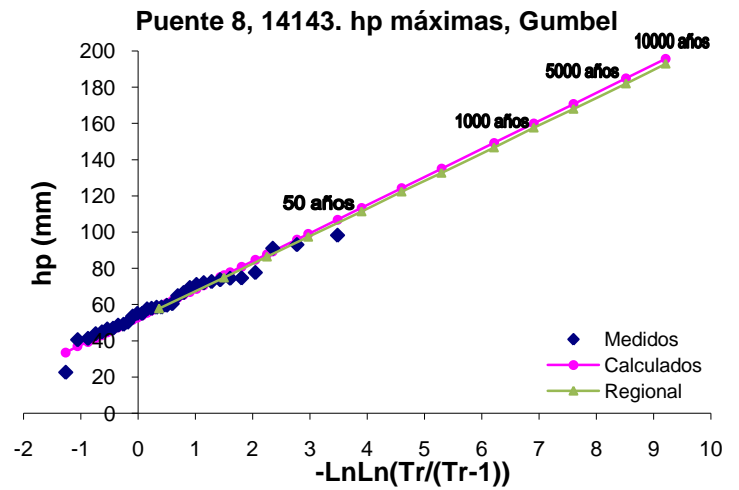


ANEXOS

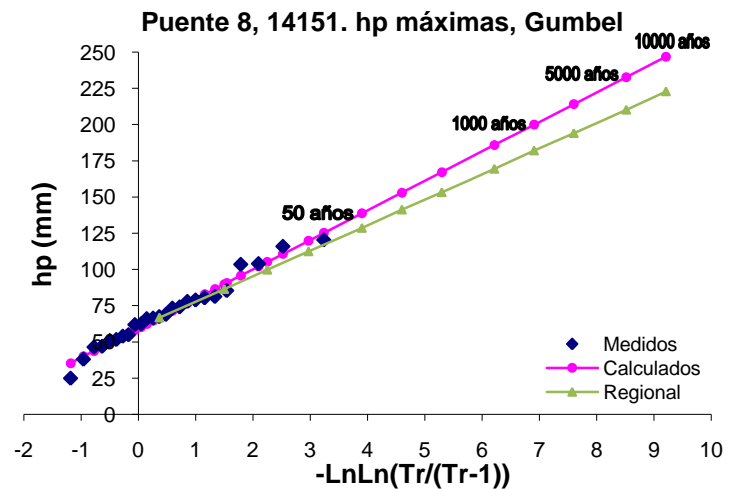
14142, Tapalpa, Tapalpa (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	53.21	53.27
5	71.46	68.97
10	83.55	79.62
20	95.14	89.71
50	110.14	102.61
100	121.38	112.70
200	132.58	122.23
500	147.36	135.13
1000	158.53	145.22
2000	169.70	154.75
5000	184.45	167.65
10000	195.62	177.74



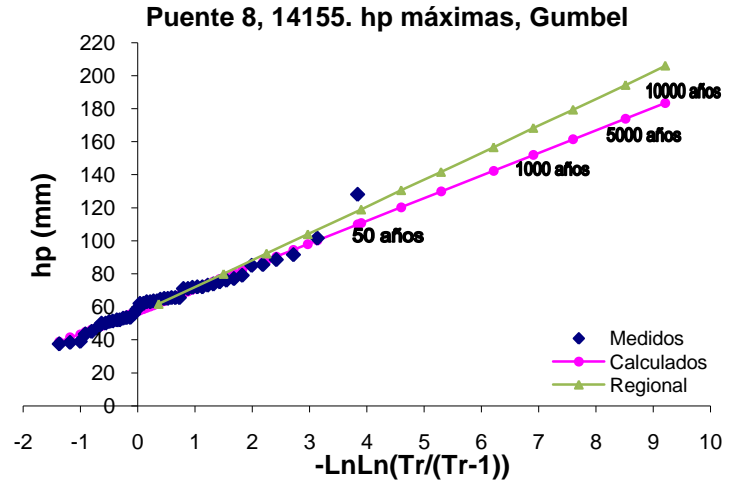
14143, Tecolotlán, Tecolotlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	58.61	57.83
5	76.18	74.87
10	87.81	86.43
20	98.97	97.39
50	113.41	111.39
100	124.24	122.35
200	135.02	132.69
500	149.25	146.69
1000	160.00	157.65
2000	170.75	168.00
5000	184.96	182.00
10000	195.70	192.95



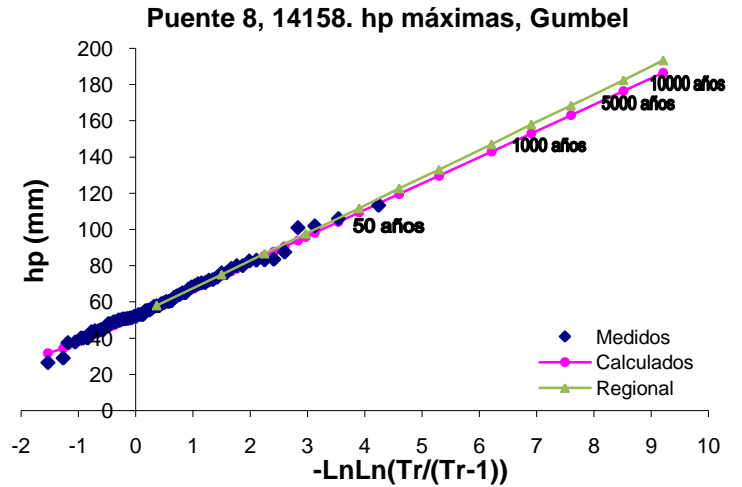
14151, Toliman, Toliman (SMN)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	66.79	66.81
5	89.87	86.50
10	105.15	99.86
20	119.80	112.52
50	138.78	128.69
100	153.00	141.35
200	167.16	153.31
500	185.85	169.48
1000	199.98	182.14
2000	214.09	194.09
5000	232.76	210.27
10000	246.87	222.93



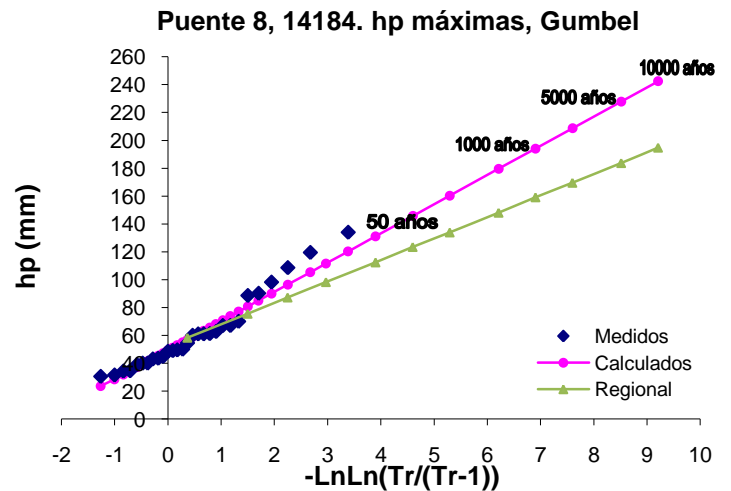
14155, Tuxcacuesco, Tuxcacuesco		
Tr (años)	hp individual (mm)	hp regional (mm)
2	62.24	61.75
5	77.78	79.96
10	88.07	92.31
20	97.93	104.01
50	110.71	118.96
100	120.28	130.66
200	129.81	141.71
500	142.39	156.66
1000	151.90	168.36
2000	161.41	179.41
5000	173.97	194.36
10000	183.47	206.06



14158, Unión de Tula		
Tr (años)	hp individual (mm)	hp regional (mm)
2	58.09	57.96
5	74.55	75.04
10	85.45	86.63
20	95.90	97.62
50	109.43	111.65
100	119.57	122.63
200	129.67	133.00
500	143.00	147.03
1000	153.07	158.02
2000	163.14	168.39
5000	176.45	182.42
10000	186.51	193.40

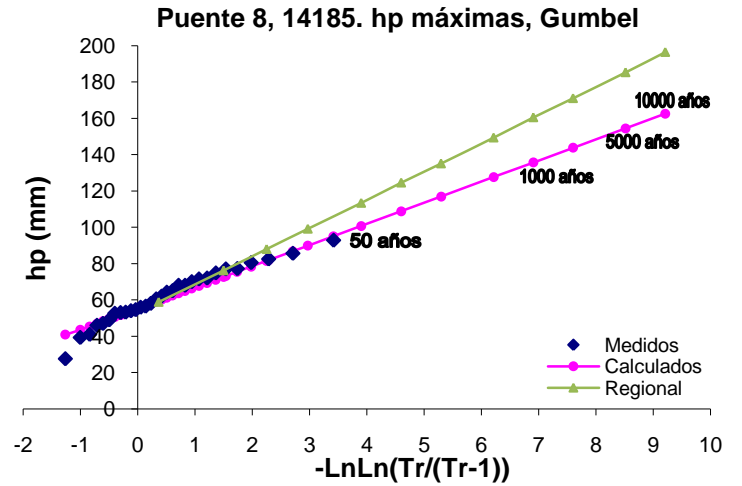


14184, Tapalpa, Tapalpa (DGE)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	57.02	58.36
5	80.78	75.56
10	96.51	87.24
20	111.60	98.30
50	131.13	112.43
100	145.77	123.48
200	160.35	133.93
500	179.59	148.06
1000	194.13	159.12
2000	208.66	169.56
5000	227.87	183.69
10000	242.40	194.75

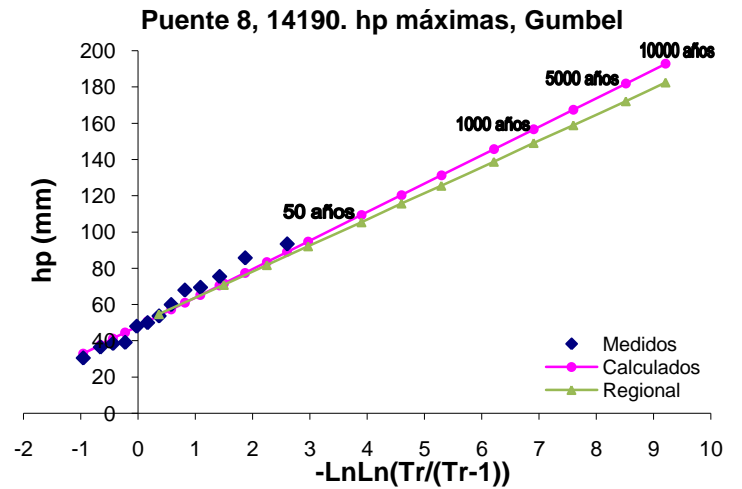


ANEXOS

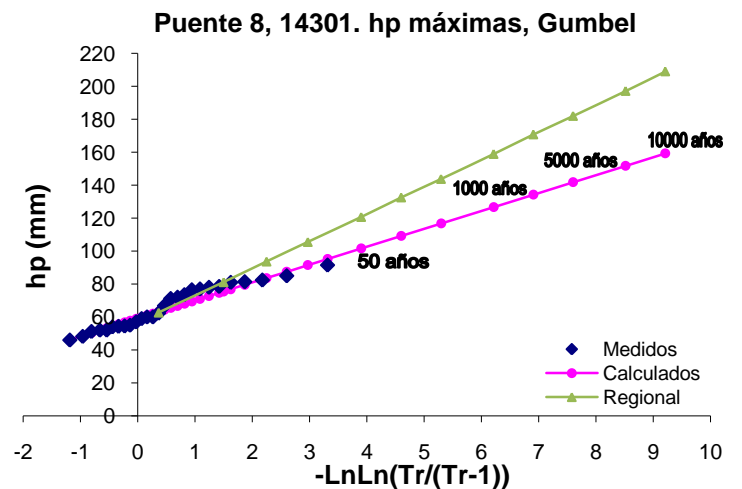
14185, Tecolotlán, Tecolotlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	59.52	58.88
5	72.72	76.23
10	81.46	88.01
20	89.85	99.16
50	100.70	113.42
100	108.83	124.57
200	116.93	135.11
500	127.62	149.36
1000	135.69	160.52
2000	143.77	171.06
5000	154.44	185.31
10000	162.51	196.47



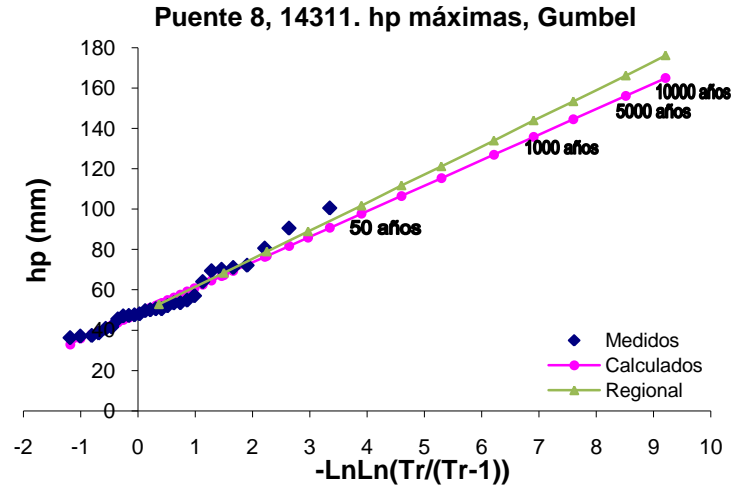
14190, Tolimán, Tolimán (DGE)		
Tr (años)	hp individual (mm)	hp regional (mm)
2	53.86	54.71
5	71.67	70.83
10	83.46	81.77
20	94.77	92.14
50	109.41	105.38
100	120.38	115.75
200	131.31	125.53
500	145.73	138.78
1000	156.63	149.14
2000	167.52	158.93
5000	181.92	172.18
10000	192.81	182.54



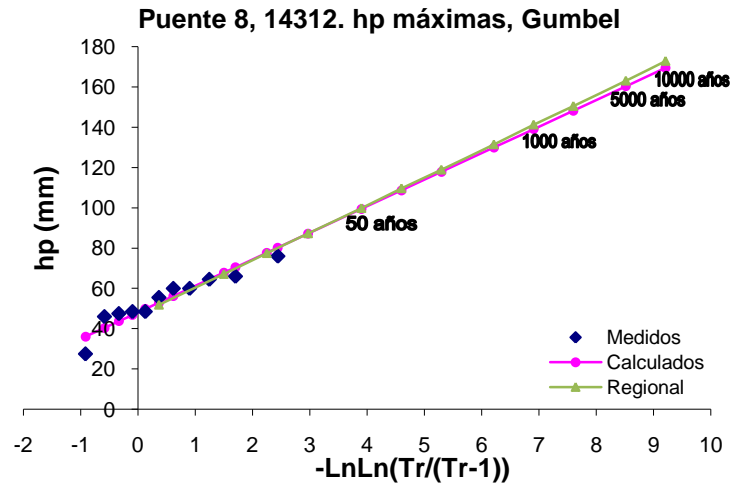
14301, Tenamaxtlán, Tenamaxtlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	63.21	62.64
5	75.52	81.10
10	83.67	93.63
20	91.49	105.50
50	101.61	120.66
100	109.19	132.53
200	116.75	143.74
500	126.72	158.91
1000	134.26	170.78
2000	141.79	181.99
5000	151.74	197.15
10000	159.27	209.02



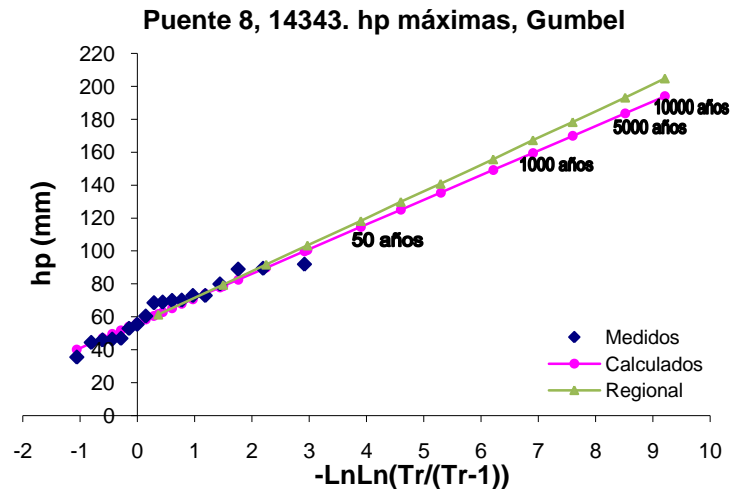
14311, Canoas, Tolimán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	52.90	52.79
5	67.26	68.35
10	76.76	78.91
20	85.87	88.91
50	97.67	101.70
100	106.52	111.70
200	115.32	121.15
500	126.95	133.93
1000	135.73	143.93
2000	144.51	153.38
5000	156.12	166.16
10000	164.89	176.16



14312, Cuautla, Cuautla		
Tr (años)	hp individual (mm)	hp regional (mm)
2	52.85	51.82
5	67.79	67.09
10	77.69	77.45
20	87.18	87.27
50	99.47	99.82
100	108.67	109.64
200	117.85	118.91
500	129.95	131.45
1000	139.10	141.27
2000	148.24	150.55
5000	160.33	163.09
10000	169.47	172.91

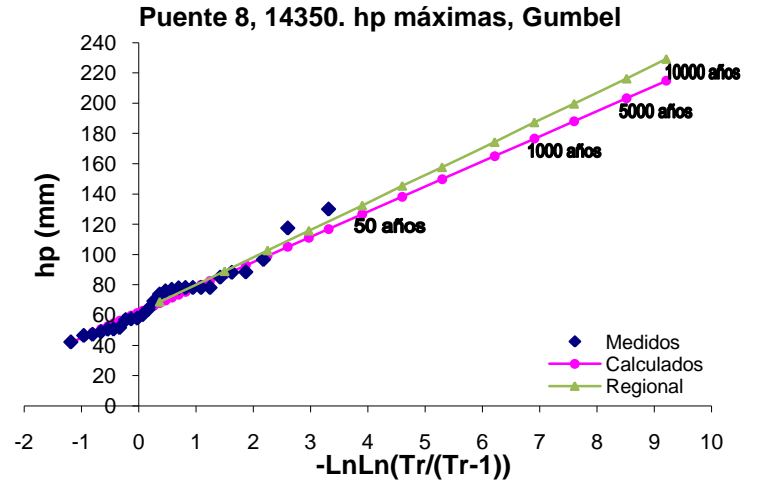


14343, Presa Basilio Badillo		
Tr (años)	hp individual (mm)	hp regional (mm)
2	61.70	61.38
5	78.66	79.46
10	89.88	91.74
20	100.65	103.37
50	114.59	118.23
100	125.04	129.86
200	135.45	140.84
500	149.18	155.70
1000	159.56	167.33
2000	169.93	178.31
5000	183.64	193.17
10000	194.01	204.80

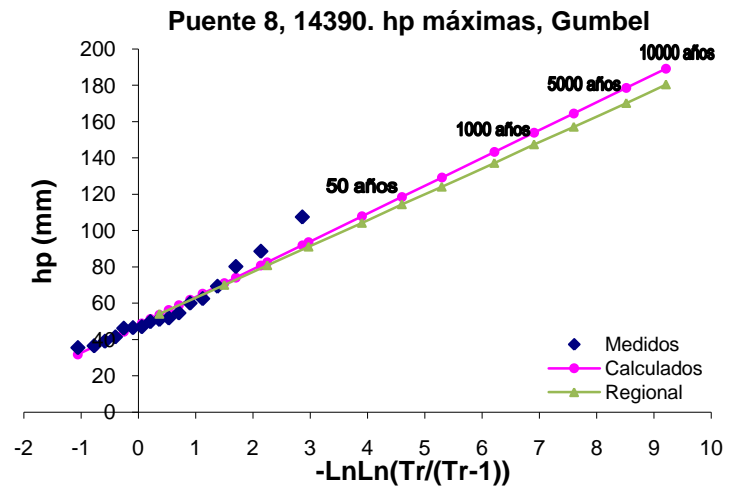


ANEXOS

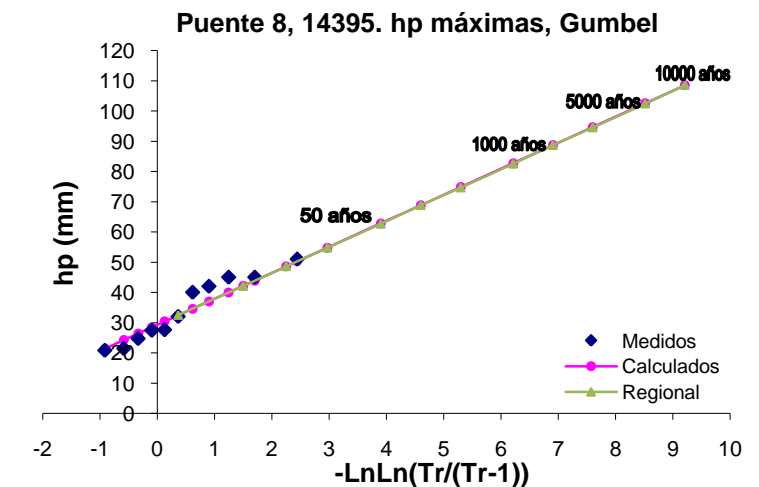
14350, El Rosario, Tuxcacuesco		
Tr (años)	hp individual (mm)	hp regional (mm)
2	67.91	68.72
5	86.73	88.97
10	99.19	102.72
20	111.15	115.74
50	126.62	132.37
100	138.21	145.39
200	149.77	157.69
500	165.01	174.33
1000	176.53	187.35
2000	188.04	199.64
5000	203.26	216.28
10000	214.77	229.30



14390, El Corcobado, Autlán		
Tr (años)	hp individual (mm)	hp regional (mm)
2	53.68	54.06
5	71.04	69.99
10	82.54	80.81
20	93.56	91.05
50	107.83	104.14
100	118.53	114.38
200	129.19	124.05
500	143.24	137.14
1000	153.87	147.39
2000	164.49	157.06
5000	178.53	170.15
10000	189.15	180.39



14395, Ixtlahuacán STGO, U. Tula		
Tr (años)	hp individual (mm)	hp regional (mm)
2	32.42	32.55
5	42.18	42.14
10	48.64	48.65
20	54.83	54.82
50	62.85	62.70
100	68.86	68.87
200	74.85	74.69
500	82.75	82.58
1000	88.72	88.74
2000	94.69	94.57
5000	102.58	102.45
10000	108.54	108.62



ANEXO H

En este apartado se enlistan las lluvias máximas anuales, en milímetros, de cada una de las estaciones y cada uno de los puentes, las cuales se usaron en los análisis probabilísticos presentados anteriormente.

➤ Puente 1, Río Escondido

Continuación ↓		
Estación Año	5042	5074
1932	103.50	
1933	41.00	
1934	62.00	
1935	74.00	
1936		
1937		
1938		
1939		
1940		
1941		
1942	45.50	
1943	32.00	
1944	63.00	
1945	30.00	
1946	70.00	
1947	76.00	
1948	120.00	
1949	43.00	
1950		
1951		
1952		
1953		
1954		
1955	48.00	
1956	32.00	
1957	93.00	
1958	74.00	
1959	62.00	
1960	80.00	
1961	38.00	
1962	32.00	
1963	12.00	
1964	190.00	
	Continuación →	
Estación Año	5042	5074
1965	65.00	
1966	17.00	
1967	7.80	
1968	45.00	
1969	58.00	
1970	106.00	
1971	11.00	
1972	40.00	
1973	138.00	
1974	50.00	
1975	68.00	
1976	40.00	
1977	100.00	
1978		
1979		52.00
1980		140.00
1981		90.00
1982		54.00
1983		43.00
1984		44.00
1985	75.00	
1986	94.00	
1987		76.00
1988		67.00
1989		64.00
1990		84.00
1991		76.00
1992		140.00
1993		40.00
1994		50.00
1995		
1996		60.00
1997		76.00
1998		65.00
<i>hp</i>	63.13	71.82
<i>S</i>	37.53	29.48
<i>Cv</i>	0.594	0.410

ANEXOS

➤ Puente 2, Río Ramos

Estación Año	5003	5016	5032	5048	5060	5130	5140	5142	5145	5151	5160	5162	5170	5174
1927			22.00											
1928			32.00											
1929			15.00											
1930			22.00											
1931			38.00											
1932			29.00											
1933			90.00											
1934			49.50											
1935			28.00											
1936			27.00											
1937			40.00											
1938			69.00											
1939			40.00											
1940			77.00											
1941			21.00											
1942	24.00		34.00											
1943	28.10		29.50											
1944	22.20		22.00											
1945	20.00	44.30	21.00											
1946	25.00		39.00											
1947	16.00		35.00	32.50										
1948	39.00	58.90	58.00	46.00										
1949	30.00	56.50	29.50	49.50										
1950	20.00	68.20	23.50	55.50										
1951	35.00	22.00	64.50	38.50										
1952	42.00	30.00	43.70	70.00										
1953	24.00	30.00	21.00	25.00										
1954	20.00	25.00	27.00	24.00										
1955	35.00	50.00	22.00	19.50										
1956	22.00	25.00	17.50	26.10										
1957	34.00	25.00	17.50	19.30										
1958	30.00	40.00	38.50	49.00										
1959	44.00	30.00	38.00	47.50										
1960	30.00	25.00	39.00	34.20										
1961	30.00	65.00	81.00	63.00										
1962	19.00	10.00	20.00	20.50										
1963	28.00	120.00	49.00	29.50										
1964	32.00	100.00	23.50	63.00										
1965	30.00		26.00	30.00										
1966	24.00		43.00	68.00										
1967	150.00	53.00	61.00	64.00										
1968	44.00	7.50	20.00	21.00										
1969	45.00	53.00	21.00	56.00										
1970	44.00	22.00	26.00	21.50										
1971	47.00	41.00	31.00	43.00										
1972	50.00	47.00	28.00	105.00										
1973	40.00	44.00	31.00	28.50	53.50									
1974	27.00	72.00	40.00	46.50	24.00									
1975	90.00	37.00	22.00	42.00	34.70									
1976	280.00	32.00	40.00	42.00	29.00	31.00								
1977	200.00	22.00	36.00	25.00	32.70	23.00								
1978	280.00	37.00	55.00	50.00	75.00	40.00								
1979		20.00	28.00	25.00	200.00	23.00								
1980		21.00	15.00	16.50	41.50	18.00		20.00	38.00					
1981		40.30	36.00	40.00		56.00	40.10	18.00	29.00	30.40				
1982		32.00	19.00	44.50		45.00		20.50	63.00	19.50				34.00
1983		48.00	32.00	46.00		21.00	22.50	20.00	60.00	68.00		49.00		26.00
1984	16.00	37.00	20.00	24.00		6.00	31.20	25.00	37.50	20.00	16.00	55.00	38.50	14.00
1985		35.00	40.00	24.00	51.00	13.50	25.00	22.00	40.00	19.00		80.50	31.50	19.00
1986		40.00	20.00	56.00	45.00	95.00	24.50		32.00			105.20	40.20	
1987		34.00	27.00	35.00		90.00	75.00	10.00	47.00	24.00		65.00	300.20	24.00
1988		60.00	116.00	160.00		75.00	87.00	12.00	77.00		210.00		51.80	35.00
1989		31.00	34.00	31.00	45.00	40.00	75.10	11.00	40.00	23.00			180.00	40.00
1990		26.00	35.00	21.00	26.50	32.00	117.00						200.00	37.00
1991	22.50	21.00	24.00	45.00			35.50	12.00	49.00	60.00	22.50		60.00	56.00
1992	25.00	46.00	29.00	34.50			47.00	23.00	26.50	40.00	25.00	42.00	32.00	
1993	35.00	50.50	22.00	33.30			130.00	10.00	32.00	20.00	35.00	40.00	190.00	20.00
1994	31.00	24.00	14.00	39.00			27.00	12.00	37.00	19.00	31.00		56.00	22.00
1995	31.00	66.00		26.00			71.50		35.00	6.00	31.00	32.00	30.00	34.00
1996	43.00	64.00		23.00			51.00	30.00	24.00	20.00	43.00	64.00	22.00	26.00
1997	54.70	28.00		30.30			24.00	40.00	60.00	19.00	54.70	22.00	30.00	26.00
1998	40.00	38.50		32.50				110.00	40.00	20.00	40.00	25.00	23.00	14.00
1999														
2000										20.00		38.00		40.00
2001										20.00		30.00		40.00
<i>hp</i>	49.97	41.09	35.06	41.19	54.83	40.57	55.21	24.72	42.61	26.35	50.82	49.82	85.68	29.82
<i>S</i>	59.17	20.97	18.81	23.79	47.85	27.32	34.11	24.16	14.22	15.72	57.01	23.92	86.95	11.07
<i>Cv</i>	1.184	0.510	0.537	0.578	0.873	0.674	0.618	0.978	0.334	0.596	1.122	0.480	1.015	0.371

➤ **Puente 3, Río Aguanaval**

Año	Est	5029	5184	10059	10067	10070	10074	10080	10099	10187	32003	32005	32006	32009	32018	32020	32021	32023	32028	32034	32038	32045	32046	32049	32050	32053	32092	32096	32110	32116	32129	32144	
1923					100																	30											
1924					10																		30.2										
1925					15																		47.7										
1926					15																		38.2										
1927					25																		80										
1928					22																		50										
1929					11																		17.5										
1930					24																		40										
1931					35																		29										
1932					18																		19										
1933					21																												
1934					55																		32										
1935					46																		46.7										
1936					23																												
1937																																	
1938																																	
1939															24.1																		
1940															39.5																		
1941															39.9																		
1942					26	60.5						41			48.5			53.5				47	20										
1943					26.5	178						49.1			37.8			45				65.7	79.5										
1944					28.5	17.9						48			45.3			51.5				19	29										
1945					16	28.8						36.5			28.4			28				20	18										
1946						37.1						29.5						40				22											
1947						43.5						58.1			34.7			84.5				20.5	34										
1948					33.5	35.5						38			46.7			33				20	50										
1949					22	32.5						38			25.4			26.5				30	25										
1950					20.5	20						87			29.8	43		20				20	39										
1951					21.5	50						35			55	47		82				20	50										
1952					33.5	20.5						45			37.2	32.7		40				19	135										
1953					47.7	49.5						86.5			58	47.6		27.5				30	43										
1954					20.5	79.7						60			34			20				25	22										
1955					40.5	27						53			34			54				23	36										
1956					25	55.5						30			31.5			40				15	22										
1957					22	13.5						23			26.8			24				20	27										
1958					47.5	35.5						35	37		55.2	53		27.5				17	70										
1959					39	35						40.5	45		41	43		28				15	32										
1960					20	30						42	70		21.2	49.5		23				16	18										
1961					70	42.5						33	23		27			55				20	54	37	58.5		35						
1962					15.5	25						38	110	26.5	26	43.5		75				21	45				26						
1963					25	41						27	70	31.5	31.4	25.5		63.5				15	38	31	50		36						
1964	2.1				22	97	28		43			27	37.5	28.5	32.5	49.8	20.1	70	29.5		20	20	35	41		23.5							
1965	3.5				38	44	31.7		66			43	51	40.4	40.5	30	24.2	31	37.7		11	25	41	32		28.5							

ANEXOS

Año	5029	5184	10059	10067	10070	10074	10080	10099	10187	32003	32005	32006	32009	32018	32020	32021	32023	32028	32034	32038	32045	32046	32049	32050	32053	32092	32096	32110	32116	32129	32144			
1966	5			19	38	47		23		38.5	45	34	32	38.5	54.5		42	31.7		15		31	38		55.1									
1967	24			34	50.5	51		38		43	57.5	27	55	39.2	41.5		44	36.5		1.6		57	33		79									
1968	37.5		55.5		46	60		44		47.5		43	56	30.5	55		40	39		67.5		43	44.5		26.2									
1969	13.5		41.2	16	28.5	26	61.5	20		18.5	45	35.5	27	22	53		41.5	32.5		25		45	17		46.6									
1970	20		66	21	48	65	33.5	28		120	41.4	53	48.5	48.5				66	52.5	20	47	39	37	24	39.2									
1971	22		48.5	68	49	67	60	65		38.5		47.4	52	27.8		43.6		40	60	55		79.5	24.5		34.7									
1972	39		56.5	58	48.5	42.5	35	55		25		41	24	34	22	37		45	56.4	46.5		36	30	32	34.7									
1973	29.8		60		63	52	40	53		39.5		39.8	29	50.3	40	35		50	43.5	68		57	77.5	28.3	67.5									
1974	20		32		57.5	28	30	32		37.4	16	28.1	39	31.3	28.5	23		43.5	35.9	37.3		31	36.5	29	35.2	31								
1975	26		38.5		37.5	60	32	41.5		40.5	35	42.3	37	44.6	55.5	30.8		48.5	40.5	35		46	23.5	32	33.9	25	86							
1976	27		44.5		45	37.5	45	58		65.7	36.5	82.8	47	54.4	30	59.5		80	54.1	53.4		52	53.5	41	42.8	37	54							
1977	40		26		25.5	38.4	25.5	67		51	40	35	52.7	37	50	47		46.5	27.9	25		36	34	13	45	35	30							
1978	42		50		63.5	45.4	75.5	84		56.5	37	35.8	23	32.2	47.5	55		73.5	32.9	61.3		88	35	30.5	36	59	70	33.5						
1979	20		25		42	26.5	61	40		22.4	25	23.7	38	41.5	28	33		63.5	31.3	30.8		18	24.5	16	31	29	61	20						
1980	26		32		21	42.5	50	35		44.5	20	19.7	17.7	15.3	24.8	33.5		34.5	27.3	39.5		31	31.5	17	18.8	27	22.5	40			46			
1981	42		42		29	36.5	45	31		49.5	34	58	35.8	23.7	32	60		78.5	38.4	38.5		57.5	57	33	30.2	27	45	42.3						
1982	45		45		45	42.3	50	32		34.6	29	17	40	28.4	42	29.5		49.4	45.1	43		52	31	17	31.7	20	30	47.5	26	65				
1983	36		29.5		51	45.6	40	57		41.7	50	66.2	34	30	47.3	53		74.5	46.5	51		37.5	31	25	40.9	40	30.5	32.2	36	44				
1984	75		24		23	42.7	33	61.5		25.6	60	32.4	40	47.8	48	36		47	32.2	34.5		32	29.5	44	27.4	20	30.5	44.9	34	46				
1985	34	66			64	33.5	85	37		45.9	50	40.2	59.5	29.9	29					36.5		56	43		23.5	30	35		40	28.8				
1986	57	38			36	39.5	98.5	51			20			67.2	46					63		39	46	21	31		32					46		
1987	29	59			57.5	39.5		42.5	56		20			49.7						45	70		64	47	41	43		35	37	38	78.5	46.5		
1988		46			44	34.5	40	34	30		43			60		63		71.7	36.4	32.8				36.5	42	31.8		60	69	31	56	33.5		
1989		25			34.5	87	35	44	58	39	34	40.2		50.4	41.4	44		34.7	50	40.4		40	73	35	66.7		23	18	22		69			
1990	33.7	53			39	37.6	45		68	70.3	35	36		38.9	29			44.5	57	40		30	50		56.6		40	10.5	40	39.8	43.2			
1991	24	50			52	56	45		48	57.5	48	30.5		49.4	34.4			49.3	38.4	30	41	40	25	31	77.2			65.3	35	61.1	24			
1992	18.3	37			53	31	26.5	48.5	82	28.5	49	63.2		27.8		35		21.4	45	22.5	36	46	27	26	29			96.3	86	46	23			
1993	17	52			48.5	40.5	26	2.5	42	30.4	49	32.2		62.8	57	40		20	45	40.5	38	51	27.5	21.9	24.9			58.3	21	31.4	37			
1994	23.2				56.5	19.5	30	41	28	42	31	49.5		38.2	29	31		23	44	40.3	18	35.5	29	38	49.8				58	55.4	27.5			
1995	24				29	60.8	30	41	38	31.5	30	41.7		47.3	37.5	42.5		34	40	20	26	35	32	57	56.8				39	36	32			
1996	39.4				40	37	20	35	49.5	34.5		19.3		47	73.5	100		40	64	80	90	91	68	68	35.6				29	59.5	63.5			
1997	22	21.5			21.5	27.5	42	24	29.1	30.8	27.4	31.7		33.7	33	32		39.1	55.5	30.5	22	34	43	34.5	36.6			25.5	37	34.5	43			
1998	49	50			36	41	45	51	42.5	45.9	43			40.3	56.7	65.5		38.7	37	58	53	62.5	37	48	54.7			40.5	34	54				
1999	22.6	27			32	33.5	38	24	38.5	33.7	18			35.7	25.5	35.3		51.1	49.5	47.4	31	47	18	15	56.8			34.5	34	65				
2000	50.8	28			35	44	62	85	37	47	68	50.3		26.5	84.5	43.6		42.5	33.3	83	45.5	45	55	40	34.2			27.5	82	42				
2001	19	12			39.5	76.9	30	36	43	37.5	22.5	33.1		23.4		26.8		24	36	59.5		25	38.5	37	30.9					25.2				
2002	35	47			51	49	25	9.5	51	72				43.1		95		49.7	48	52.3		53		76	55.3					57.2				
2003	43	30			60	51	80	38		36.8						55.5		71.4	48	34		42	39	28	37.8					39				
2004	49	38			43	55.2	92	60		33.6										45	36.5		45	27	52						49.5			
2005	42	25			58	82	70	31		23.5	28	61.7			24	52		28.7	40.5	33	31.5	39	32.5	34				15.2						
2006	24	31				48	28	46.5		38.6	40	38.4		37.5	86.2	40		36.5	46.5	30.2	53.5	67.2	53.9	28	31			32.4	41.5	44.2				
2007	61									39.2		69		42.6	51.3			44.9	31.3	61.5	65.2	79	59	46	121					57.2	35.3			
\bar{h}_p	31.25	38.71	42.13	30.87	44.38	45.12	46.22	42.82	46.29	41.35	42.61	40.77	38.26	38.26	42.43	46.09	43.21	45.31	43.33	35.47	40.60	46.19	39.49	34.32	41.99	31.67	42.78	39.52	41.04	47.48	40.68			
S	15.28	14.32	12.87	18.18	22.61	15.05	20.11	17.34	14.53	16.40	18.06	14.77	11.40	11.15	15.29	17.76	18.43	16.02	9.20	18.28	21.92	16.07	13.96	14.20	18.66	10.56	18.34	20.52	17.36	13.06	14.47			
Cv	0.489	0.370	0.306	0.589	0.509	0.333	0.435	0.405	0.314	0.397	0.424	0.362	0.298	0.291	0.360	0.385	0.427	0.354	0.212	0.515	0.540	0.348	0.354	0.414	0.445	0.333	0.429	0.519	0.423	0.275	0.356			

➤ **Puente 4, Río Quelite**

Estación Año	25031	25176
1961	48.00	
1962	78.50	
1963	119.00	
1964	85.00	
1965	168.00	
1966	55.00	
1967	78.00	
1968	151.00	
1969	63.50	
1970	76.40	
1971	89.20	
1972	236.00	
1973	70.50	
1974	105.00	
1975	137.00	
1976	117.00	
1977	63.00	
1978	54.50	
1979	84.00	
1980	143.00	117.90
1981	160.00	160.00
1982	54.50	58.50
1983	60.00	109.60
1984		47.50
1985	99.00	87.00
1986	105.50	87.10
1987	58.00	55.00
1988	75.00	82.80
1989	93.00	95.80
1990	86.50	101.50
1991		60.00
1992		101.50
1993		126.00
1994		64.30
1995		50.30
1996		78.10
1997		47.80
1998		80.00
1999		128.50
2000		85.00
2001		29.00
2002		46.00
2003		48.00
2004		111.00
\bar{h}_p	97.00	82.33
S	42.99	32.15
Cv	0.443	0.391

ANEXOS

➤ Puente 5, Río Baluarte

Estación Año	10036	10038	25029	25058	25070	25073	25074	25078	25150	25186
1956	40.50									
1957										
1958	84.00									
1959	78.00									
1960	96.20									
1961	63.00		35.00							
1962	190.40		80.50							
1963	80.60	165.00	75.50		90.00	206.10				
1964	57.00	35.00	72.80	106.80	90.00	76.10		160.00		
1965	105.00	107.00	44.00	142.40	234.00	160.00		252.80		
1966	91.00	75.00	90.50	100.50	132.00	87.90		129.50		
1967	79.00		71.00	55.60	76.00	91.50		94.80		
1968	226.00	200.00	92.00	25.20	300.00	132.50		240.00		
1969	140.00	109.00	78.50	200.70	158.00	122.40	74.00	80.80		
1970	60.00	85.00	94.00	79.00	120.00	94.50	120.00	193.00		
1971	84.00	58.00	88.00	97.40	123.00	123.50	150.30	86.00		
1972	70.00	125.00	156.30	61.70	137.00	72.30	152.70	268.00		
1973	62.00	83.00	97.00	54.00	101.00	111.30	65.60	111.50		
1974	100.00	125.00	180.00	89.00	120.00	70.00	194.50	109.00	91.20	
1975	50.00	72.00	49.00	84.00	155.00	72.50	120.00	85.00	116.00	
1976	60.00	68.00	47.70	95.50	119.00	80.00	144.00	87.00	69.50	
1977	50.00	80.00	57.00	70.50	66.00		66.60	95.00	86.70	
1978	100.00	70.00	85.60	90.00	81.00		100.50	53.00	66.80	
1979	160.00	190.00	285.00	100.50	140.00	100.50	73.60	78.00	137.30	
1980	60.00	60.00	128.00	71.00	110.00	75.70	109.90	35.00	68.50	
1981	160.00	62.00	181.00	65.00		137.00	125.00	98.00	90.10	
1982	75.00	80.00	108.50		101.00	67.00	67.00	87.00	102.50	109.70
1983	200.00	90.00	95.00			82.50	107.00	77.70	140.00	168.00
1984		160.00				94.40	93.40	81.00	105.40	68.50
1985	53.40	38.00	126.00			180.00	130.50	90.00	109.40	100.00
1986	49.50	50.00	42.00			205.90	123.00	200.00	213.70	217.30
1987	82.00	81.00	67.00				67.30	152.00	161.50	90.60
1988	83.00		82.00			180.00	77.50	168.00	65.00	73.00
1989	73.00		158.00				111.20	64.00	76.50	
1990	120.00		157.00				100.00	113.00	135.00	
1991			88.00				72.00	66.00	39.50	106.50
1992			70.00				98.00	157.00		60.00
1993			320.00				72.50	115.00	120.00	136.30
1994							49.00	103.50	74.00	82.00
1995							60.00	57.50	60.00	70.30
1996								91.00	90.50	68.40
1997							113.00	63.00	73.00	58.40
1998							57.00	202.00	111.50	81.50
1999							50.00	122.00	86.00	93.00
2000							150.50	120.00	188.00	146.70
2001								555.00	75.00	80.00
2002		38.00						77.00	123.50	112.80
2003		50.00					100.50	81.00	92.00	65.50
2004		81.00					86.00	850.00	135.00	92.00
2005							97.40	119.00	167.00	77.00
2006							142.00	88.00		92.30
2007							95.00	81.00		
\bar{h}_p	93.41	90.26	106.31	88.27	129.11	114.07	99.46	145.10	103.44	99.07
S	46.55	44.69	64.66	37.99	55.94	44.51	34.78	143.05	38.86	39.72
C_v	0.498	0.495	0.608	0.430	0.433	0.390	0.350	0.986	0.376	0.401

➤ Puentes 6 y 7, Río Peñuelas y Río San Pedro

Est Año	1004	1006	1007	1015	1022	1024	1025	1030	1031	1032	1033	1034	1045	1062	1063	1075	1076	1079	1083	1085	1086	
1925																						
1926																						
1927							46															
1928							40															
1929							14.5															
1930							69															
1931							46															
1932																						
1933																						
1934																						
1935																						
1936																						
1937																						
1938																						
1939																						
1940																						
1941																						
1942		40.5	37.5				34															
1943		35.5	38.3				51								60.5							
1944		39	34.5				78								38.5							
1945		47	54.5				56								43.5							
1946		84	37				30								63							
1947		46.5	45				32								32							
1948		24	27.5				38.5	40.5							38.5							
1949		43	30.5		47.1		24	48.9						26	54							
1950		38.5	61		70.7		30	28.3							30	35.5						
1951		28	33.5		47		46.5	38.4						40	47.5							
1952		39	26.5		38.5		44	27.6							32	43.5						
1953		30.5	42.5		39.3		30	39.3						59	46.5							
1954		59.5	26		48.5		48	45.1						41.2	55							
1955		69	37		37		34.5	26						35	37.5							
1956		43.5	37		91.5		61	30.2							46.5							
1957		62	40		34		26.5	51							37.5							
1958		65	49		38.3		47	91.3							54.5							
1959		35	36		62.6		45.5	65							45.5							
1960		26.5	36		67		39	26							49.5							
1961		32	10.5		37.5		35	33														
1962		67.5	4.5		42.8		39	36														
1963		45	36		32.6		42	48														
1964		45.5	67		56.8		41	45.2														
1965		43	30		55.4		37	51.5														
1966		85	40		30.2		40	78.7														
1967		68	77	43	58		68	82.5														
1968		50	44	40	39		64	42														
1969		60	60	20	46.3	39	35	30.3														
1970	85.5	67	75	60	80	45	75	73														
1971	66	98	62	40	39	49	45	45		41	32.4											
1972	63	33	49.5	40	41	39	51	45.8	44	71.5	52	25.5										
1973	43	75	120	53	90.5	40	55	53	48.5	48.2	67	49										
1974	51.8	24	100	32	24.5	32	40	68	33.2	54.2	47	29	24									
1975	49.4	60	48	60	58	62.2	24	38.3	74	42.4	61	53.5	60									
1976	161.3	47.5	65	37	35	60	23	67	71	65.3	52	100	47.5									
1977	40.4	28	28	34.7	48.3	40	28	52.5	39	47.2	32	60	28									
1978	52.7	45	23	82.3	78.5	46	24	49	57	74.3	77.1	40	45									
1979	43	31	36	30.2	68	60	43	47.3	66	28	52	46	31									
1980	43	23	28.8	38.2	52.3	20	80.3	71		27.5	53	33	23	22		18	81	34	22	19	20	
1981	36	55	45	33.7	42.5	19	32	65	31	45	25	29	55	24.4	24.3	28.3	41	30	32	32	24.4	
1982	42	25	31	28.6	84.5	30	26	32	51	42.5	28	46	25	34	84.9	31.1	69	34	20	40	40	
1983	60.7	90	68	58	34.5	37	43	42	60	55	34	42	90	53	60.1	46.9	43	62	53			
1984	42.8	32	55	50	27	37		41.5	40	40	36.5	42	32	40	29.5	40	21	40	38	40		
1985	58.4	36	43	53.5	27.7	69		23.7	49.5	95.8	52.2	46	36	54	37.8	26	25.7	80	33	54		
1986	48.6	58	60.5	32.5	44.8	63		63	32	68	66.4	75	58	30		51	19.9	72			30	
1987	71.2	45	45	31	58	48		44	42	29	37	63	45	38		50.8	43	32	87	46	38	
1988	33.2	62	45	65	60.5			43		34.5	37.2	73	62	71		53.7	30	27		42	71	
1989	29			50.5	51	26		58.5	83.7	37	40	25	40	21		65.5	33	21.5	41	37	21	
1990	47			65	48.5	49.8		42	73.2	60	61	100.1	48	28		54.6	37	39.6		48	28	
1991	65			37	95.5	45.7		57	46.4	63	41	64	75	23.5		58.8	48	48	61			
1992	47			47.5	47.5	79.2		50.3	64.5	54	77	56	43	60		48.5	48	26	48.5			
1993	35			47	35	38		20	80.2	45	51	27	55	44		28.7	26	20	26			
1994	24.4			31	57	37.6		53.8	58.2	45	30	24	24.5	31		40.3	30	20	36.5	28		
1995	102			31	80	42.7		61	32	46	46.7	50	68	40.5		53.8	78.5	20	37	40		
1996	65.4			45.5	52.6	32.5		31	33	30	43.5	33	72	33		36.4	38	33.6	32	37		
1997	34.3			28.5	24.5	20.6		20.5	58.1	26	34.5	72	46	45		87.5	33.5	33.4	43.5	36		
1998	84			52.5	36	45.1		42	68.5	52	48.5	54	42	47		37.5	36	44.3	28.5	85		
1999	50.3			36	50	76.8		42.2	32.8	66	43	32	23	30		64	59.5	41.4	47	53		
2000	24			82.5	53	49.4		32	34.5	21	47.6	17.2	24	35		62.6	62.5	60	35	34		
2001	50.5			55.5	41	41.3		34.2	75	92	60	25.5	43	54		62.5	47.5	66.4	49.5	44		
2002	59.3			62.5	41	40		42.6	70	60	61.5	25	50	40.5		39.5	43	39.6	35	62		
2003	45.4			48.5	60	35		49.6	62	53	49	49	55	48.5		47.3	53	45.7	47	26		
2004	47.3			85.5	33.5	35.8		62.6	48	52	52	65	70	47.2		64	45	51.2	49	45		
2005	36			53.5	65	46		61	29	44.5	32	34	50	26.5		35.6	41.4	42.5	44.8	37		
2006	28.2			42.5	43.5	43		37.2	42	70	46.8	42	70	48		61	40.1	42.4	35	37		
2007																						
h _p	53.14	48.65	45.24	46.62	50.51	43.78	42.58	46.89	52.4	50.72	47.41	47.05	47.27	39.19	46.06	50.28	43.6	37.12	44.17	40.91	38.13	
S	25.03	18.8	20.67	15.51	17.29	14.18	15.07	15.62	16.43	17.44	13.17	20.44	17.46	12.12	8.77	17.19	14.13	14.2	16.04	14.58	15.94	
Cv	0.471	0.386	0.457	0.333	0.342	0.324	0.354	0.333	0.313	0.344	0.278	0.435	0.369	0.309	0.19	0.342	0.324	0.382	0.363	0.356	0.418	

Continuación ↓

Est. Año	1090	1096	1097	1098	1099	1101	11050	11150	11160	14006	14054	14058	14062	14097	14103	14106	14114	14330	32118
1925							24												
1926							36.5												
1927							38.4												
1928							52												
1929							30												
1930							40												
1931							25												
1932							58												
1933							33												
1934							40												
1935							40												
1936							37												
1937							46												
1938							42												
1939							35						50						
1940							37												
1941							60						61.5			59			
1942							50						32			53			
1943							65						51		28.5	23.9			
1944							40						66		76.3	71.2			
1945							30						28		58.3	45.9			
1946							46						26		28.6	90.6			
1947							55						46		53.2	40			
1948							32						20.5		44.1	38			
1949							23						30.5		111.8	33.2			
1950													20.2		43.2	37.8			
1951							50						70.7		79.2	47			
1952							80						32.3		42.1	39.5			
1953							52						65		38.5	45.8			
1954							62						43		38.5	30			
1955							36						54		41.8	36			
1956							34						48		63.3	31.2			
1957							65						54.8		25.8	61.6			
1958							40						60		37.5	40.4			
1959							76						48		42.5	37.5	54		
1960							51						39		55	29.9	39.5		
1961							75		29.4				30.5		24	38.9	27		
1962							63		83				44.7		36	51.4	40		
1963							32		63.2				69.7		54	71.7	58		
1964							32		25.8				49.2	45.6	69	28.5	40		
1965							127		41.5				43		40	37.3			
1966							34		42	53.1			52	62.5	86	83	57.7		
1967							32		61.9	52.2				38	50	40.2	54		
1968							39		63.4	38			23	48	60	36.1	41		
1969							50		45.7	50.4			35	52	34	34	36.1		
1970									50	67			70	27	45	42	42		
1971									51.9	54.4	40		49	54.5	44			45.7	
1972									35.8		102.5	22	83	32	44	48			
1973									121.5	52.2	39	40.2	44	43	50	74			
1974							45		32.4		27.5	28.8	32	55.3	40	21			
1975							39		43.5		64.9	83.3	49.5	68	62.7	42.4			
1976							52		55.3		64.8	40.7		81	95.4	43.5			
1977							45		40	57	54.5	40		26.5	38.7	43.5			
1978							28.2		69.6	40.8	59.8	75		74	68.7	35.3			
1979	36						34		45.2	27.4	34.3	39		23	34.5	35	24.7		
1980	18.3						30		53.7	46.8	34.4	43		33	68.8	56	28	31.5	
1981	45						47	53.2	30	39	36	33.6	38.4		26	38.2	45	24.9	29
1982	31						32.5	63	25	41.1	63	80.6	74		25.1	40.3	39.7	62.2	52
1983	68						23.5	50.9	26	40	31.6	34.6	32.5		104.5	41.1	33.3	26	45.5
1984	55	20.7					25	40.3	28.6	45	41.2	43.1	38.5		44	57.2	39.5	37.5	44
1985	43	84			36		49.4	29	34.7	57.7	25.8	32.6	104.8		50.5	38.7	31	43.5	43.5
1986	60.5	60			65.3	72	38	58		52.5	34.7	46.9	80.4			42.5	34	64.5	63
1987		32		35	42	65.5	57.5	35	20	55.7	39	42	54.3			33.6	46	55	50.5
1988	85.8	27			80	60	46	38.9	46.5	46.8	41.2	62.8	50			70.3	70	86	42
1989	43.3	20		43.5	73	23		44	65	72.3	140.5	39	131.1				23.9	60	40
1990	65.9			70	74	101.2	56.5	39.4	47.1	72.7			80.5				46		75
1991	73	63		65.8	50.5	55.3	46	48.4		44.7			51.5				49		98.5
1992	46	55		53.4	45	77	47.5	35		73	61.3		62.7				60.4		44
1993	30	34		22	50.5	29.2	42	52.8		41	28		38.3				45		41
1994	35	58		28	26.5	21.5	30	40	43	32	37.7		67.4				28.5		44
1995	57	34		40	30.4	57	40	54.5	42	38.5	34.5		44.5				50.3		32
1996	48.5	52	43	38	64.7	54	23	75	33	66	48		46.5				44.1		33.7
1997	32.5	42	20.5	34	28.9	24	32	37	30.3	40	40		45.7				28		64
1998	31.5	33	41	35.4	51.5	40	50	32	42	60	63.8		49.8				64		42.5
1999	51.2	55	65	40.1	35.3	33	12.5	45.3	57	32	37.5						56		38
2000	30	40	37	27.6	27.5	34	41	44.7	35.7	87	35.2						40		34
2001	28	57.5	59	26.7	58.2	72.5	55	33.7	32.4	31	55.2						41		86
2002	57	42.3	70	54.2	48.5	62	42	113		71.5	67.5						49		61
2003	90	48.3	59.7		63.6	66	45	55.9	66.8	79.5	51.9						110.3		38
2004	63	34.5	67		40	53	51	55.9	29.5	95.5	113.7						80.4		55
2005	65	46	59	40.1	31.5	38.8	38	28.2	56.5	45	32.2						59		42
2006	53	45	49.5	46	56.8	38	27	60.9	50	55	71						50.7		48
2007							30	47	42.2	57	100						74		
hp	49.72	44.7	51.88	41.16	49.08	51.29	43.45	48.56	40.15	53.75	51.94	49.31	50.27	48.74	49.68	47.22	47.33	46.57	48.8
S	18.06	15.28	15.17	13.36	16.29	20.87	16.23	17.15	12.96	19.14	24.09	19.25	20.56	15.19	21.23	16.58	16.01	20.44	16.65
Cv	0.363	0.342	0.292	0.325	0.332	0.407	0.374	0.353	0.323	0.356	0.464	0.39	0.409	0.312	0.427	0.351	0.338	0.439	0.341

➤ **Puente 8, Río Armería**

Est Año	6007	6008	6014	6015	6017	6020	6023	6052	6056	6065	6066	6075	14352	14013	14014	14019	14031	14041	14043		
1925																					
1926																					
1927																					
1928																					
1929																					
1930																					
1931																					
1932																					
1933																					
1934																					
1935																					
1936																					
1937																					
1938																					
1939																					
1940																					
1941																					
1942																				60	
1943																				77.5	
1944																				76.5	
1945															45					35.2	
1946														61	51	81				62.5	
1947														82	36.5	28.5	32			41.5	
1948														53			67	51.8		84.2	
1949		72.5											34	40	38	35				37.5	
1950		90											74	49	43	60					
1951	107.6	182.5											110	48	32	74	44.7			76.6	
1952	67.6	84.5											70	38.5	30	70	31			183.3	
1953	68.6	70.5											49.5	48	63	39	43.7			48.1	
1954	74.6	76.5												53	65	78	52			77.5	
1955	177.2	205					115						71.5	45.5	65.5	58	47			82	
1956	116.7	104.5					119.5						48	45	44	52	54			100.6	
1957	73.7	95					51							42.5	43	83	33			57.6	
1958	116.9	81.5	96			131.5	89						86.5	70	86	83	58			99.3	
1959			210.6			67	110						134.5	65.5	53	67	55			71.5	
1960	40	75.9	48			85.5	95						40	55	28.5	71	56			99.5	
1961	95.5	39.9	49.2			37.5	41.6							55	56	93	26.5			69.3	
1962	47.8	42	51			47.5	52.7						38.5	52.5	62	52	36			115	
1963	68.4	71	48.3	80		88.5	71.8							80	67	37	60			52.5	
1964	90		68.8	41		32.8	80.4							36.5	50	40	45			59	
1965	62		47	49		61	44						74.5	22.5	62	70	45	44		53.5	
1966		50.4	60	51		82	50						20.5	22.5	58	39	56.5	61		55.5	
1967	80	120	145.5	111		65	96.8						62.5	32	80	68	96	80		100	
1968	84.6	120	131	147			143						31	25	50	117	60	115.5		87	
1969	84	272	287.6	50		262.5	272						101	35	94.5	40	95.5	60		99	
1970	86	71	108.2	73	153	178	121.5						137	36	40	70	62.5	50		38	
1971	160	98.3	132.5	85	96	79	103.8						78	32	35	99	60	60		94	
1972	125	153.9	83	95	107	94	200						61.5	47	24	92	50	47		64	
1973	81.5	38.5	70	63.5	58.2	37.5	93.2						57	60		47	70	47.3		41	
1974	120	80.2	106.6	88		46	82.1						75.5	74	47	71.5	40			50	
1975	68	76.3	87.5		73		158.7						91.5	63	60	67.5	30	34.5		49	
1976	58	116.5	80.9		95.2		118.1	64					127.5	39.6	83	58	80	90		85.5	
1977	65	98	60	70.5	129		73.5	98					32	34	55.5	40.5	33	49.3		68	
1978	87.6	95	54.6	64.5	117		54	79.4					22	42	65	45	49	51.4		55.5	
1979	79.6	48.7	97.1	36	114.4		67.7	49					45.5	47	98	55				52.2	
1980	68.5	85.5	76.4	89	180.3		96.3	73					62.5	74	49	74	51			70	
1981	56	67.6	72.1	67	71.6		83	52					96	41	89		56	49.6		65.5	
1982	87	62.5	58.4	161	63.5		172.5	127	180.2				82	67	60		62	42		93	
1983	73	68.5	212.3	84	103.4		118	107	120.2				112	54	56		80			66	
1984	71	65.6	75.6	65.5	63.1		70.3	22.6		62		79	35.5	34			55			58.6	
1985		39	66.6		56.8		34			64		50	35	42			62			45	
1986		57.8	71.7		92.7		79			63.5	43	75	46	99			55			50	
1987	49	61	105.7		163.7		217			62	65.8		53	100	59		128	88.5		88	
1988	86	80			102.7		133	82	93	65		100		78			80			49	
1989	50	53.5		60	86.8		82	69	64.2	80	40	100		53		64.5	58			35	
1990	48	77.1	108	47.5	54.3		55.5	48	60	65	56	47.5					58			51.5	
1991	63.5	60.2	69	24	50.6		53.5	63.5	60.3	62	40	107.5		42		45				52	
1992	96.4	123.3	140.2	123	115.9		117.3	96.4	142		120			83		120				88.5	
1993	118	97	112.8		187.4		181.3	118	155	122	150			42		71				58	
1994	82.6	76.2	117.7		115.8		75.5	82.6	182.2	182	44	75		31		69.3				49	
1995	114.3	85	110.3		85.7		104.5	81.3	76	40	71			36		64.8				53	
1996	55.5	95.7	81.2	74.6	154.5		220	63.2	143		270.7			42		134				76.5	
1997	89.5	75.5	120.8		69.8		74	87.7	61.3		78			42		51.5				56	
1998	105.7	112.3	91.9	60.9	80.2		175.5	104.6	98					42		34				70	
1999	273	214.2	287	340	400.1		279.5	268.6	175.5		238			44		130				103.5	
2000		83.7	90.2	180	100		110	57.2	85			69		61		63				55	
2001		81.5	66.5		50.2		62.5							36						75	
2002		220.7	160.8		231.8		102	108.6		110	29.5			45						95	
2003		148	92.8		196.8		243	69.1				70		47						52	
2004		58	57.5		77.3		48				61	190		75.5							
2005		87.7																			
2006		129.2						179													
2007		148.3	73.2		87.2		109	89.5						93							
hp	88.29	95.44	100.92	88.61	113.86	87.21	109.82	90.01	107.14	80.07	99.32	84.67	68.90	49.93	56.10	68.02	55.47	57.28		69.36	
S	39.94	47.96	55.27	61.46	67.13	59.91	59.46	47.75	46.54	39.99	77.04	38.56	32.37	16.28	18.69	26.14	16.99	20.42		24.97	
Cv	0.452	0.503	0.548	0.694	0.590	0.687	0.541	0.531	0.434	0.499	0.776	0.455	0.470	0.326	0.333	0.384	0.306	0.357		0.360	

Continuación ↓

Continuación ↓

EST	14046	14050	14051	14052	14078	14094	14139	14142	14143	14151	14155	14158	14184	14185	14190	14301	14311	14312	14343	14350	14390	14395
1925								62.5														
1926								63														
1927								50				113.3										
1928								100				43.5										
1929								17.5				40										
1930								40				56.5										
1931								25				83.5										
1932																						
1933																						
1934																						
1935																						
1936																						
1937																						
1938																						
1939		67.5																				
1940																						
1941		55																				
1942		38.5										52										
1943		78.7						60	98.2			78.5										
1944		83.4						68.4	57.5			65										
1945		52						52.2	58.4			57.5										
1946				38				57.3	41.2			51.2										
1947		61.6					34.5	52	48.5			50.6										
1948		56.3		60	49.3		53.5	40.6	66.5			63.3										
1949		61.2		30			53	46.5	60.4	25		50.6										
1950		48.5	60	39	42.5		42.5	101.3	77.6	51		50.8										
1951		56	49	51	55.8		70.2	41.5	59.5			59.5										
1952		60	56	60.1	52.1		36	63	74.4			26.5										
1953		65.7		81.3	47.5		52.2	42.6		62		53										
1954		60.1		49	40.5		49.7	54.3	74.6	46.5		46.5										
1955		40		60	34		50	57	44.8	62.5		65										
1956		48		36	32.4		45.5	49	46.8	55		48										
1957		57		43.5			56	41.5	43.8	47		68.9										
1958		54.2		68	64		68	48	57.8	79		70.6										
1959		65	66.1	88	61.2		58	63.5	72.6	103.6		70										
1960		60.7	46.5	48.5	30		54.9		93	67.5		67										
1961		81.1	56.1	57.5	59		57			80.5	50	50	49	92.8								
1962		61	71.5	33	37.8		51			38.1	62	72	31.5	27.6								
1963		66	85.3	64.5	69.4		81			85.5	45	80	67	71.5								
1964		48.5	44.5	48	29		42.5			73.4	51.3	44	48.5	82.5								
1965		62.8	69	47.5	59		47.8			51.7	43.5	55.3	39	52.6								
1966		54.3	57.2	60	55	71	59			66.5	47	76	43.5	54.6								
1967		85.9	68.7	122	86	152.5	55.5			69	72	60.5	90.2	70								
1968		98	76.6	142	80		99.8			104.1	128	83	134	77.2								
1969		98	106.3	140	40	190.5	36.7			74.2	85	102	119.5	77								
1970		66	77	60.1	47	40	67	71.9		116	65.5	40	40	85.6								
1971		85.5	87.5	120.2	67	75	138.5	106		81.4	72	87.5	67	64.2								
1972		60	72.1	93.2	44.5	67	74.9	56.2		66.1	79	50	49.5	39.3								
1973		114.8	54.3	170.4	31.5	40	85	48.4		78	63	64	34.5	80.5								
1974		138	41.4	47.5	49	51	75.5	54.5		54	58.5	37.8	61	56.5								41.4
1975		56	46.2	102.1	35	45	60	42.5		120.5	51	60.2	70	46								46.2
1976		94.2	80.2	110	70	71	88.3	64		71	53	54.5	47	75.5	60							80.2
1977		40	36.5	67.4	39	56	55.2	56.5		73	55	34.3	41	30.5	60							36.5
1978		61.2	35.5	67.1	54	50.5	50.5	40		39	29	50	72	50	46							35.5
1979		60		105.1	22.5	59	53.8			76	49	44.8	58	38.5	78.5							39
1980		61.4	54.6	60	71	50	74.5	56.5		65	52	61.2	68	60	76.5	54.8	47.5	73				54.6
1981		57.5	69.3	60	47.5	53	98.3	56.5		88.5	53	98.2	60.5	53.7	66.8	50.5	55.5	47	88.5			69.3
1982			88.6	60	49.5	75	107	69.5			101	88.6	54	68	82.4	69.4	64.5	70.2	96.7			88.6
1983		60	80	45.5	68	45.3	55			77	70.5	61	53.2	85.8	81.4	90.5	60	60.5	77			60
1984		44	47		73.5	30.4	52.8	51.1		50	62.5	108.6	53	69.5	48.2	48	46	35.6	130			47
1985		44.2	51		68.7	41.6	35.5			55.7	44	43	74.8	48	78	41.5	48.5	55.5	78.2			51
1986		69.4	51.8		37.5	43	108.6	87		53.5	72.3	60	55.9	39.1	51.2	40.8	66	46.5	51.8			51.8
1987		83.5	43		50.5	68.4	45.2	68.2		65.5	83.2	62.7	68	93.5	62.3	71	76	68.6	50.8			107.5
1988		63			51	65	67.9	57.2		52	44.7	30.5	62	36.5	71.2	37.3	60	80	46.6			62.5
1989		65			46	60	60.5			85.5	73.6	40	65		54.3	37	27.5		85			46.5
1990		53.7			60.1					65.5	57.8		49			50.5	48.5		57.5			49.8
1991		96.7			54.5	61	63.9	44.5	46.4	91.5	40				59	45.5		73				57
1992		75			66.7	68	86.3	99.3	91	63.5	68.2				91.5	80.6		89				78
1993					41.3	55	54.5	42		63	106				85	53.4		69				49
1994		35.7			52.9	81	54.6	82	40.5	37.5	59				73.5	53.5		46				42.3
1995		68.5			37.9	55	63.5	43.5		75	48				57	70.1		44.5				42
1996		55			29.5	41	53.5	37.5	22.5	64.5	57.8				77	47.2		89.5				51
1997		46.5			60	70.5	69.6	64	64.8	73.7	76				55	72.1		92				40
1998		40.6			38.3		56.2	62	71	53.4	80				72	47		53				45
1999		75.3			60	47		78.5	50.1	101.5	60.2				52	100.5		70				117.5
2000		38.5			53	54.6		44	55	38.4	49				54	64						20.8
2001		20.5			36	50		62	49	71.7	44.7				54.5	52						27.6
2002		65.4			38.1	50			69.3	65	37.5				52	38.5						24.7
2003		43.7			67.5			62.5	72	63.5	51				81	47.5						21.4
2004		28			38.9	75			58.5	71	82.6					50						27.4
2005		18			58.8	41			55	62	55.5					57						32
2006		49.5			46.5	80			53.5	53						49.6						88.2
2007		62.8			88	47			73.6	52						36.2						45
<i>hp</i>	61.06	61.33	75.57	55.36	55.30	81.06	57.81	56.07	60.87	70.32	65.00	61.01	61.43	61.98	57.58	65.94	55.57	54.55	64.61	72.33	56.91	34.26
<i>S</i>	24.75	15.85	27.93	23.36	14.25	37.47	15.09	18.80	16.49	23.33	17.23	17.65	26.88	14.94	19.82	13.11	16.24	12.95	16.98	21.16	19.65	10.67
<i>Cv</i>	0.405	0.258																				