

APÉNDICE II.2. SERIES DE APORTACIÓN DE LOS SISTEMAS DE EXPLOTACIÓN OCCIDENTALES

Parte española de la Demarcación Hidrográfica
del Cantábrico Oriental.
Ámbito de competencias del Estado

Junio de 2013

APÉNDICE II.2. SERIE DE APORTACIONES DE LOS SISTEMAS DE EXPLOTACIÓN

En las siguientes tablas se muestra la información por sistema de explotación, en el orden que se muestra a continuación, de la precipitación, infiltración y escorrentía total extraída del modelo de simulación.

COGIGO SE	SISTEMA DE EXPLOTACIÓN	AREA (km2)
1	Nervi3n	1594.84
2	Oria	815.66
3	Urumea	246.29
4	Bidasoa	679.71
5	R3os Piren3icos	186.43

Precipitación (mm)

Sistema explotación: Urumea

Año	Oct	Nov	Dic	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Annual
1940/41	220.4	187.8	352.8	123.0	279.3	124.9	119.5	238.3	130.8	103.6	215.8	210.0	2306.2
1941/42	80.5	159.2	149.0	402.7	239.9	83.8	319.2	67.6	81.5	174.9	76.3	197.9	2032.4
1942/43	89.9	73.6	83.3	264.5	238.2	66.8	73.0	159.9	76.9	87.0	68.8	245.0	1527.0
1943/44	130.7	322.6	139.2	38.0	190.2	93.1	108.7	75.1	97.7	101.9	112.5	145.3	1555.1
1944/45	335.7	229.0	261.7	341.2	71.3	113.3	109.2	167.3	53.7	82.2	129.7	99.7	1993.8
1945/46	89.7	92.4	237.2	88.8	62.1	96.7	152.3	256.3	90.6	83.2	77.9	38.6	1365.8
1946/47	162.1	272.7	325.7	136.6	171.3	90.0	50.7	148.9	64.0	54.1	146.8	200.3	1823.3
1947/48	190.8	182.5	239.3	292.3	75.7	54.8	111.4	175.8	110.1	54.4	119.2	180.3	1786.7
1948/49	147.9	122.4	89.7	204.0	87.8	235.9	149.5	203.4	88.4	64.1	116.1	214.1	1723.4
1949/50	132.2	397.7	271.2	128.5	150.1	131.7	293.0	127.4	62.4	46.3	113.6	111.9	1966.0
1950/51	266.1	200.6	470.7	301.9	262.4	173.5	143.1	330.9	107.2	69.3	203.8	101.0	2630.6
1951/52	206.3	250.3	193.7	323.9	262.9	159.0	179.9	53.5	66.6	174.6	77.3	122.0	2069.9
1952/53	274.9	293.4	293.0	174.5	181.2	90.2	173.3	127.3	215.6	95.4	75.2	136.1	2130.1
1953/54	400.3	140.7	103.4	284.4	323.2	165.4	106.9	273.1	108.4	140.8	192.6	117.4	2356.8
1954/55	105.3	145.3	327.4	238.5	137.9	79.3	41.9	74.9	117.2	95.3	41.6	206.6	1611.1
1955/56	271.3	49.5	181.0	239.1	102.6	79.2	236.4	236.7	148.7	108.0	105.9	116.6	1875.1
1956/57	178.9	274.6	95.7	98.4	102.8	75.4	169.2	204.5	210.9	100.8	49.9	146.8	1708.1
1957/58	90.0	206.1	170.1	208.1	111.3	279.7	343.4	153.1	143.7	102.6	73.2	95.9	1977.1
1958/59	142.7	373.5	353.2	174.1	63.4	233.1	265.7	138.2	120.8	102.3	87.2	262.4	2316.6
1959/60	266.3	228.0	321.5	131.2	115.0	206.5	141.3	86.8	133.0	86.1	106.8	207.9	2030.4
1960/61	385.3	226.5	519.3	326.8	125.8	40.9	374.4	95.7	149.1	93.7	56.1	166.1	2559.8
1961/62	308.7	337.2	95.5	152.6	299.7	134.2	266.1	229.2	67.8	104.7	40.8	55.7	2092.1
1962/63	102.8	238.5	242.1	141.2	153.5	218.5	134.7	114.5	141.8	81.9	262.8	180.6	2012.9
1963/64	131.5	172.2	107.0	109.9	136.7	174.1	241.6	88.3	120.2	50.3	93.9	86.3	1511.9
1964/65	320.7	193.5	259.5	280.7	74.5	191.7	488.7	133.8	55.0	84.2	130.3	263.7	2476.3
1965/66	90.5	256.5	378.4	114.5	193.8	151.3	176.8	166.8	167.9	170.9	54.6	45.9	1968.0
1966/67	408.1	469.4	389.3	191.8	61.1	175.1	165.1	130.6	140.7	63.7	61.7	180.3	2436.9
1967/68	191.2	377.9	336.7	422.1	131.7	186.6	193.7	206.3	79.6	51.3	131.3	137.8	2445.9
1968/69	46.6	153.3	264.3	87.9	199.2	193.0	321.8	145.2	102.9	49.6	127.0	217.2	1908.0
1969/70	31.4	145.1	614.5	180.5	272.5	229.0	253.4	135.9	94.3	66.9	121.2	43.6	2188.2
1970/71	160.4	149.0	92.1	144.9	235.3	233.6	182.5	213.2	102.4	67.7	74.5	97.3	1753.0
1971/72	66.6	317.9	155.5	298.0	174.4	128.0	287.4	232.3	78.3	40.9	139.0	86.0	2004.4
1972/73	65.3	94.0	180.8	204.1	352.4	128.9	143.5	107.1	176.0	107.5	89.0	185.9	1834.3
1973/74	57.0	173.2	290.7	75.4	257.8	240.7	145.6	150.5	57.9	121.2	115.1	214.3	1899.4
1974/75	578.1	350.2	136.5	122.1	70.9	340.2	202.0	148.3	65.2	39.7	122.2	111.7	2287.1
1975/76	78.2	421.5	103.1	121.1	272.2	144.1	260.4	71.4	33.3	206.5	90.6	146.3	1948.8
1976/77	252.9	166.3	174.6	82.9	84.3	105.1	155.1	215.1	189.6	262.5	172.4	8.4	1869.2
1977/78	83.9	307.5	76.1	378.0	261.5	288.0	287.3	280.9	105.4	89.5	65.9	76.5	2300.6
1978/79	109.0	80.2	116.2	351.9	191.3	220.6	401.7	125.1	103.7	80.4	140.8	126.5	2047.4
1979/80	143.3	319.8	173.8	151.1	87.1	227.2	74.3	289.1	150.5	99.1	45.7	79.2	1840.3
1980/81	381.3	221.8	369.8	422.3	149.4	135.7	172.5	159.9	50.2	126.2	75.1	79.4	2343.7
1981/82	237.1	52.6	402.5	199.3	236.7	340.6	12.0	84.9	67.2	55.8	112.1	67.2	1868.0
1982/83	363.3	241.1	352.4	89.5	240.5	267.0	187.4	114.3	112.8	151.2	297.2	39.9	2456.4
1983/84	95.2	64.9	83.3	379.3	258.0	95.8	120.8	306.5	102.7	18.7	91.1	243.8	1860.1
1984/85	141.8	264.1	202.5	175.5	77.8	259.9	107.5	278.0	68.3	65.3	93.5	13.7	1748.1
1985/86	52.7	158.5	109.6	408.9	145.3	174.0	355.1	69.4	125.5	46.1	79.4	140.4	1865.0
1986/87	93.2	197.7	284.2	156.3	293.2	164.8	138.6	80.0	130.8	80.0	72.2	39.7	1730.8
1987/88	222.1	346.1	56.0	292.3	218.6	273.8	174.8	136.1	152.5	108.3	98.3	89.5	2168.5
1988/89	26.3	33.5	141.2	53.7	139.7	110.9	301.1	68.9	32.5	90.6	72.8	82.0	1153.2
1989/90	64.0	160.8	19.8	145.5	104.6	69.0	427.1	92.4	99.8	69.8	55.9	78.6	1387.1
1990/91	178.8	264.6	266.1	97.2	93.7	164.0	263.8	267.0	68.6	67.9	48.1	251.2	2030.8
1991/92	149.2	303.5	60.3	60.5	51.9	254.1	219.9	132.1	206.7	121.6	134.0	102.4	1796.2
1992/93	552.9	194.1	277.8	21.2	62.3	56.1	217.5	98.3	108.6	134.8	92.7	217.7	2033.9
1993/94	170.8	107.3	344.9	174.1	222.8	111.4	411.6	133.4	121.8	53.4	58.6	215.8	2125.9
1994/95	134.8	112.2	234.5	318.3	189.3	230.6	74.3	131.3	24.2	70.2	62.8	195.2	1777.9
1995/96	26.2	99.3	181.0	115.7	309.6	89.7	105.1	110.2	87.4	179.9	131.6	127.5	1563.3
1996/97	177.2	469.6	199.4	182.7	51.6	49.1	112.8	206.9	214.7	175.7	111.3	86.4	2037.6
1997/98	100.0	275.1	212.4	108.0	69.0	115.0	225.9	119.7	115.3	78.9	80.8	205.4	1705.5
1998/99	406.8	295.8	115.7	222.6	276.5	183.9	174.9	190.3	77.2	49.6	43.7	97.7	2134.7
1999/00	50.0	244.9	255.8	25.3	246.1	133.3	231.8	86.0	95.7	196.9	107.2	90.3	1763.3
2000/01	373.4	245.8	109.2	200.0	91.9	162.6	182.6	142.3	69.8	130.2	63.7	55.0	1826.4
2001/02	71.4	154.6	50.2	60.5	254.1	73.8	127.5	251.1	140.8	109.7	191.3	53.5	1538.6
2002/03	200.6	295.5	346.7	306.3	186.9	122.1	68.1	177.8	57.7	37.8	45.5	120.4	1965.4
2003/04	222.4	160.7	254.5	325.1	133.7	139.9	151.4	128.8	40.6	52.4	104.4	95.5	1809.4
2004/05	157.4	201.4	260.2	201.7	158.9	87.2	252.7	103.5	39.5	45.2	88.5	150.9	1747.3
2005/06	111.2	340.0	246.1	141.6	71.0	267.2	97.4	51.1	124.4	66.0	73.2	154.1	1743.3
nº datos	66	66	66	66	66	66	66	66	66	66	66	66	66
Máximo	578.1	469.6	614.5	422.3	352.4	340.6	488.7	330.9	215.6	262.5	297.2	263.7	2630.6
Minimo	26.23	33.48	19.84	21.15	51.58	40.94	12.02	51.06	24.21	18.69	40.79	8.38	1153.2
Percentil 10%	60.5	93.2	86.5	79.2	69.9	74.6	85.9	75.0	54.3	47.9	52.3	49.7	1559.2
Percentil 90%	378.1	348.5	363.2	347.6	272.4	264.2	334.8	262.7	161.8	173.1	144.4	216.6	2351.5
Media	184.2	222.1	224.3	197.2	169.7	159.3	196.3	156.0	105.2	94.6	103.2	132.7	1944.7
Mediana	148.6	213.9	223.5	175.0	156.2	147.7	174.8	137.2	102.8	85.2	91.9	121.2	1928.4
Des. típica	125.1	102.3	121.1	106.9	82.3	73.7	100.5	69.1	45.6	46.9	50.8	66.0	299.3
C.V.	0.68	0.46	0.54	0.54	0.49	0.46	0.51	0.44	0.43	0.50	0.49	0.50	0.15
C.S.	1.17	0.34	0.70	0.48	0.26	0.50	0.77	0.65	0.60	1.25	1.64	0.23	0.09

coef-Autocorr (1)

Precipitación (mm)

Sistema explotación: Bidasoa

Año	Oct	Nov	Dic	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Anual
1940/41	167.4	172.7	316.9	143.7	286.4	130.7	132.6	206.2	123.1	94.9	149.3	192.7	2116.7
1941/42	91.2	160.3	132.6	407.0	198.6	90.3	231.1	78.2	70.7	125.8	58.1	175.2	1819.0
1942/43	85.5	45.7	104.2	251.4	201.5	78.2	92.6	138.6	65.8	73.6	57.5	183.1	1377.8
1943/44	141.8	267.7	132.2	37.4	191.4	87.3	113.3	83.8	90.3	84.5	77.9	125.1	1432.8
1944/45	324.9	195.9	254.6	351.4	59.3	115.4	108.6	171.6	63.5	62.5	137.6	85.4	1930.7
1945/46	78.0	86.5	262.0	77.5	70.3	89.5	146.0	234.5	95.2	60.3	63.6	40.4	1303.8
1946/47	134.7	257.3	342.7	119.6	166.6	104.1	59.9	125.5	55.4	41.7	117.6	182.9	1708.0
1947/48	178.1	160.8	221.7	263.5	60.1	71.9	110.2	175.6	81.4	55.3	93.4	210.4	1682.6
1948/49	121.9	95.6	86.4	149.5	71.2	189.5	112.1	178.9	79.8	57.5	79.7	167.1	1389.3
1949/50	82.5	356.3	238.5	174.3	164.1	125.2	252.9	130.5	49.4	36.8	95.7	64.0	1770.4
1950/51	266.2	193.6	418.3	264.2	219.4	170.7	134.3	312.5	96.7	58.9	172.2	86.5	2393.6
1951/52	165.3	247.1	180.6	267.1	234.3	132.5	154.8	76.6	57.8	109.6	61.5	102.3	1789.6
1952/53	242.6	256.8	256.1	153.4	151.6	93.3	145.0	108.2	199.6	66.4	55.8	106.7	1835.5
1953/54	327.8	117.9	107.5	254.2	239.6	147.7	88.0	244.2	90.5	106.4	171.0	97.8	1992.7
1954/55	84.6	126.5	295.0	248.9	119.1	80.6	42.8	69.0	100.0	68.5	39.2	143.7	1417.7
1955/56	224.6	38.4	199.8	255.7	96.7	92.5	209.8	202.1	105.8	127.7	124.6	106.5	1784.2
1956/57	172.3	242.9	106.7	101.9	115.8	89.7	160.6	176.1	204.6	74.8	35.5	153.1	1634.0
1957/58	91.2	169.9	160.4	202.4	108.7	220.5	314.3	132.2	113.3	84.8	53.4	75.0	1726.2
1958/59	93.0	280.2	284.1	153.8	62.0	181.6	262.0	133.5	96.5	78.6	78.6	204.4	1908.3
1959/60	245.6	184.6	288.1	125.9	86.0	160.5	123.6	77.4	79.8	80.0	97.6	201.2	1750.2
1960/61	361.6	198.6	457.6	282.2	124.2	53.8	327.1	124.6	118.2	79.4	47.4	127.6	2302.3
1961/62	337.7	304.5	104.0	122.2	237.9	108.4	235.0	190.3	34.7	94.4	31.0	36.9	1837.0
1962/63	116.1	262.8	265.9	116.3	140.0	199.0	116.7	100.0	95.2	80.5	230.7	142.9	1866.2
1963/64	112.1	167.1	102.0	98.8	121.2	167.4	155.6	83.4	105.6	41.5	69.7	65.9	1290.4
1964/65	296.6	145.0	231.9	296.1	74.9	184.1	396.8	120.0	57.0	48.7	117.0	242.0	2210.2
1965/66	88.4	256.5	383.1	116.2	202.3	150.5	173.9	165.1	125.1	124.9	37.2	57.0	1880.2
1966/67	414.9	399.2	357.4	157.8	61.5	133.9	126.5	110.2	98.0	46.7	38.6	128.8	2073.5
1967/68	193.6	301.6	306.3	330.4	104.9	160.9	149.8	160.1	67.3	47.6	119.4	105.7	2047.6
1968/69	36.6	127.7	232.9	90.3	166.1	162.1	249.3	138.5	92.1	40.5	100.2	197.1	1633.4
1969/70	22.2	114.1	494.3	166.1	233.5	179.5	185.4	125.3	80.7	49.7	93.2	26.5	1770.5
1970/71	117.1	123.0	82.0	143.5	212.7	195.6	157.0	174.2	76.1	76.3	47.6	87.5	1492.5
1971/72	61.5	277.3	148.6	281.2	154.8	98.7	233.8	183.0	75.2	35.8	125.4	99.3	1774.6
1972/73	58.0	92.2	172.3	157.2	283.4	99.4	124.2	119.4	130.7	75.4	59.7	133.4	1505.2
1973/74	57.5	114.1	226.1	71.4	214.0	180.4	105.6	122.2	55.7	91.7	93.5	132.1	1464.2
1974/75	377.5	213.4	82.6	88.8	49.4	217.5	127.7	139.4	46.8	19.9	81.7	86.9	1531.4
1975/76	72.2	342.0	79.4	84.0	185.2	127.7	167.5	71.5	28.9	162.7	84.2	109.6	1514.8
1976/77	256.8	154.9	182.0	73.1	77.0	79.4	125.6	191.6	182.7	196.2	143.7	13.4	1676.4
1977/78	86.4	250.2	77.6	335.0	207.9	254.0	229.5	227.8	105.6	70.7	46.8	82.9	1974.4
1978/79	76.9	71.6	111.5	275.9	160.6	169.8	316.7	134.0	70.1	76.7	113.7	114.7	1692.2
1979/80	151.1	227.1	152.2	115.3	83.4	211.3	61.8	220.6	111.4	75.4	44.5	70.1	1523.9
1980/81	348.4	196.0	288.4	319.7	146.0	103.3	122.5	139.3	50.8	88.7	59.5	81.4	1944.0
1981/82	198.8	51.9	326.1	150.3	199.8	256.1	21.9	66.0	80.3	53.3	86.0	59.6	1550.2
1982/83	322.5	196.7	310.4	69.4	210.0	208.5	186.4	105.3	73.7	110.5	225.2	39.5	2058.1
1983/84	56.0	72.7	93.6	302.5	212.7	103.1	103.6	241.9	76.3	19.9	75.6	191.3	1549.3
1984/85	130.6	221.8	137.8	136.0	59.3	210.1	93.3	217.1	67.5	38.8	62.9	17.7	1392.9
1985/86	47.5	118.9	86.2	349.7	113.6	137.1	254.1	60.2	66.0	36.5	53.8	107.6	1431.3
1986/87	78.1	165.0	219.8	129.8	203.9	128.3	108.2	69.8	109.2	60.5	57.1	38.2	1367.7
1987/88	161.2	258.6	59.6	283.1	181.0	211.0	160.9	113.3	126.9	77.2	59.0	83.5	1775.3
1988/89	26.7	34.6	114.6	51.2	149.6	79.4	276.2	63.5	32.0	78.3	68.0	70.1	1044.1
1989/90	48.0	131.0	25.2	103.2	113.0	63.8	316.7	101.0	66.1	46.7	46.4	60.0	1121.2
1990/91	140.2	176.1	234.0	66.0	73.9	141.2	219.2	236.4	56.6	69.4	38.4	154.7	1606.2
1991/92	113.3	274.1	54.8	55.5	47.3	213.1	185.6	107.6	168.1	96.4	135.3	97.2	1548.2
1992/93	458.5	169.2	224.8	16.9	59.7	56.0	187.5	107.2	86.1	85.1	99.0	201.6	1751.6
1993/94	161.3	80.4	303.1	162.7	211.0	76.3	341.5	102.6	99.9	23.7	38.9	148.1	1749.5
1994/95	118.7	98.8	186.6	262.9	151.9	202.8	63.9	113.4	19.3	61.2	40.4	143.7	1463.5
1995/96	13.3	67.6	163.3	106.3	272.4	88.3	81.8	98.6	73.3	148.3	79.5	106.7	1299.4
1996/97	129.4	394.4	168.3	193.0	52.2	43.7	83.9	168.1	155.8	131.5	120.8	64.5	1705.6
1997/98	100.7	260.0	196.0	99.1	62.2	125.9	202.1	91.0	92.3	64.0	34.7	177.0	1505.0
1998/99	305.2	229.2	112.2	179.2	223.9	156.9	158.5	191.8	59.2	46.0	33.7	93.1	1789.0
1999/00	50.4	224.6	210.7	24.6	190.1	132.4	182.3	77.4	101.9	143.7	92.4	79.1	1509.7
2000/01	299.7	190.3	101.1	204.0	88.3	145.6	166.5	125.7	50.6	90.6	71.5	41.6	1575.7
2001/02	64.7	136.0	35.1	60.3	236.2	50.3	101.1	188.5	115.7	73.3	133.7	50.5	1245.3
2002/03	158.1	276.0	349.0	284.0	183.5	106.7	68.2	151.9	61.6	24.7	31.3	128.0	1823.1
2003/04	216.2	127.9	228.1	285.0	124.7	128.5	142.1	135.8	45.8	75.8	72.4	81.7	1664.0
2004/05	119.1	142.2	222.9	166.4	148.5	81.5	225.7	112.9	29.9	23.4	84.1	109.9	1466.5
2005/06	105.2	320.0	201.1	109.8	71.2	243.4	84.4	40.4	102.7	33.7	58.9	206.0	1576.8
nº datos	66	66	66	66	66	66	66	66	66	66	66	66	66
Máximo	458.5	399.2	494.3	407.0	286.4	256.1	396.8	312.5	204.6	196.2	230.7	242.0	2393.6
Minimo	13.31	34.61	25.24	16.89	47.28	43.72	21.91	40.43	19.28	19.88	31.02	13.38	1044.1
Percentil 10%	53.2	76.5	82.3	67.7	60.8	77.3	82.9	74.0	48.1	36.2	38.5	41.0	1372.7
Percentil 90%	326.6	293.1	336.0	300.0	229.7	211.2	270.5	219.2	126.2	125.4	134.7	194.8	1985.4
Media	160.4	188.1	201.4	175.4	148.2	137.6	165.1	139.1	87.0	74.0	83.4	112.1	1671.8
Mediana	125.7	180.4	197.9	153.6	150.6	131.6	152.3	128.1	80.5	73.4	74.0	106.1	1679.5
Des. típica	107.4	87.0	104.8	95.1	66.8	54.3	79.4	55.5	38.0	35.3	43.8	54.8	269.7
C.V.	0.67	0.46	0.52	0.54	0.45	0.39	0.48	0.40	0.44	0.48	0.52	0.49	0.16
C.S.	0.94	0.32	0.58	0.43	0.13	0.32	0.78	0.68	1.05	1.03	1.34	0.36	0.13

coef-Autocorr (1)

