

CAPTURAR BOLETIN

AÑO	EVAPORACION			USO CONSUNTIVO						RETORNOS						ESC. AGUAS ARRIBA					
	V10	V11	V12	SUMA	V10	V11	V12	DR	URDR	DR	URDR	DR	SUMA	PECUARIO	total con pecuario	agricola	p.u.	SUMA	San Gaspar	P. Sabino	suma
					URDR	DR	URDR	DR	URDR	DR	URDR	DR	URDR	DR	URDR	DR	URDR	DR	URDR	DR	URDR
1945	0.11	3.60	0.24	3.96	0.33	0.60	0.51	2.16	0.84	4.44	1.90	6.33	0.44	1.38	1.83	66.40	144.40	210.80			
1946	0.11	3.67	0.25	4.04	0.34	0.61	0.52	2.20	0.86	4.52	1.94	6.46	0.45	1.41	1.86	62.51	136.42	198.93			
1947	0.12	3.75	0.25	4.12	0.35	0.62	0.53	2.24	0.87	4.61	1.97	6.59	0.46	1.44	1.90	127.47	140.64	268.12			
1948	0.12	3.82	0.26	4.20	0.35	0.63	0.54	2.29	0.89	4.71	2.01	6.72	0.47	1.47	1.94	161.34	223.10	384.44			
1949	0.12	3.90	0.26	4.28	0.36	0.64	0.55	2.33	0.91	4.80	2.05	6.86	0.48	1.50	1.98	64.43	111.17	175.60			
1950	0.12	3.98	0.27	4.37	0.37	0.66	0.56	2.38	0.93	4.90	2.10	6.99	0.49	1.53	2.02	66.85	145.46	212.31			
1951	0.13	4.06	0.27	4.46	0.37	0.67	0.58	2.43	0.95	5.00	2.14	7.13	0.50	1.56	2.06	63.74	144.90	208.64			
1952	0.13	4.14	0.28	4.54	0.38	0.68	0.59	2.48	0.97	5.10	2.18	7.27	0.51	1.59	2.10	99.05	134.94	233.99			
1953	0.13	4.22	0.28	4.64	0.39	0.70	0.60	2.53	0.98	5.20	2.22	7.42	0.52	1.62	2.14	122.53	141.31	263.85			
1954	0.13	4.31	0.29	4.73	0.40	0.71	0.61	2.58	1.00	5.30	2.27	7.57	0.53	1.65	2.18	51.08	126.63	177.71			
1955	0.14	4.39	0.29	4.82	0.41	0.73	0.62	2.63	1.02	5.41	2.31	7.72	0.54	1.69	2.23	230.96	259.88	490.84			
1956	0.14	4.48	0.30	4.92	0.41	0.74	0.64	2.68	1.04	5.52	2.36	7.87	0.55	1.72	2.27	88.96	139.94	228.90			
1957	0.14	4.57	0.31	5.02	0.42	0.75	0.65	2.74	1.07	5.63	2.41	8.03	0.56	1.75	2.32	30.09	84.95	115.03			
1958	0.14	4.66	0.31	5.12	0.43	0.77	0.66	2.79	1.09	5.74	2.45	8.19	0.57	1.79	2.36	499.55	446.99	946.55			
1959	0.15	4.75	0.32	5.22	0.44	0.79	0.67	2.85	1.11	5.85	2.50	8.36	0.59	1.82	2.41	123.45	121.92	245.37			
1960	0.15	4.85	0.33	5.32	0.45	0.80	0.69	2.90	1.13	5.97	2.55	8.52	0.60	1.86	2.46	44.49	107.27	151.76			
1961	0.15	4.95	0.33	5.43	0.46	0.82	0.70	2.96	1.15	6.09	2.60	8.69	0.61	1.90	2.51	41.03	62.45	103.48			
1962	0.16	5.04	0.34	5.54	0.47	0.83	0.72	3.02	1.18	6.21	2.66	8.87	0.62	1.94	2.56	90.94	115.38	206.32			
1963	0.16	5.15	0.35	5.65	0.48	0.85	0.73	3.08	1.20	6.34	2.71	9.05	0.63	1.98	2.61	131.47	115.20	246.67			
1964	0.16	5.25	0.35	5.76	0.48	0.87	0.74	3.14	1.22	6.46	2.76	9.23	0.65	2.01	2.66	93.96	91.76	185.72			
1965	0.17	5.35	0.36	5.88	0.49	0.88	0.76	3.20	1.25	6.59	2.82	9.41	0.66	2.05	2.71	401.44	188.41	589.85			
1966	0.17	5.46	0.37	6.00	0.50	0.90	0.77	3.27	1.27	6.72	2.88	9.60	0.67	2.10	2.77	161.89	179.21	341.10			
1967	0.17	5.57	0.37	6.12	0.51	0.92	0.79	3.33	1.30	6.86	2.93	9.79	0.69	2.14	2.82	418.48	521.15	939.63			
1968	0.18	5.68	0.38	6.24	0.52	0.94	0.81	3.40	1.32	6.99	2.99	9.99	0.70	2.18	2.88	82.41	133.53	215.94			
1969	0.18	5.79	0.39	6.36	0.53	0.96	0.82	3.47	1.35	7.13	3.05	10.19	0.71	2.22	2.94	24.94	57.40	82.34			
1970	0.18	5.91	0.40	6.49	0.55	0.98	0.84	3.54	1.38	7.28	3.11	10.39	0.73	2.27	3.00	192.79	210.49	403.28			
1971	0.19	6.03	0.40	6.62	0.56	1.00	0.86	3.61	1.41	7.42	3.18	10.60	0.74	2.31	3.06	518.09	392.05	910.14			
1972	0.19	6.15	0.41	6.75	0.57	1.02	0.87	3.68	1.43	7.57	3.24	10.81	0.76	2.36	3.12	48.77	67.33	116.10			
1973	0.20	6.27	0.42	6.89	0.58	1.04	0.89	3.75	1.46	7.72	3.30	11.03	0.77	2.41	3.18	476.34	567.50	1,043.84			
1974	0.20	6.40	0.43	7.03	0.59	1.06	0.91	3.83	1.49	7.88	3.37	11.25	0.79	2.46	3.24	73.34	67.37	140.71			
1975	0.20	6.53	0.44	7.17	0.60	1.08	0.93	3.91	1.52	8.03	3.44	11.47	0.80	2.50	3.31	209.68	192.05	401.73			
1976	0.21	6.66	0.45	7.31	0.61	1.10	0.94	3.98	1.55	8.20	3.51	11.70	0.82	2.56	3.37	552.82	470.42	1,023.24			
1977	0.21	6.79	0.46	7.46	0.63	1.12	0.96	4.06	1.58	8.36	3.58	11.94	0.84	2.61	3.44	108.22	123.30	231.51			
1978	0.22	6.92	0.46	7.60	0.64	1.14	0.98	4.15	1.62	8.53	3.65	12.17	0.85	2.66	3.51	86.81	147.64	234.45			
1979	0.22	7.06	0.47	7.76	0.65	1.17	1.00	4.23	1.65	8.70	3.72	12.42	0.87	2.71	3.58	35.37	49.56	84.93			
1980	0.22	7.20	0.48	7.91	0.67	1.19	1.02	4.31	1.68	8.87	3.79	12.67	0.89	2.77	3.65	155.95	68.22	224.17			
1981	0.23	7.35	0.49	8.07	0.68	1.21	1.04	4.40	1.71	9.05	3.87	12.92	0.90	2.82	3.73	36.76	51.95	88.71			
1982	0.23	7.50	0.50	8.23	0.69	1.24	1.06	4.49	1.75	9.23	3.95	13.18	0.92	2.88	3.80	12.30	54.36	66.66			
1983	0.24	7.65	0.51	8.40	0.71	1.26	1.08	4.58	1.78	9.41	4.03	13.44	0.94	2.93	3.88	92.11	127.13	219.23			
1984	0.24	7.80	0.52	8.56	0.72	1.29	1.11	4.67	1.82	9.60	4.11	13.71	0.96	2.99	3.95	72.50	124.29	196.79			
1985	0.25	7.95	0.53	8.74	0.73	1.31	1.13	4.76	1.86	9.79	4.19	13.98	0.98	3.05	4.03	58.42	77.11	135.53			
1986	0.25	8.11	0.54	8.91	0.75	1.34	1.15	4.86	1.89	9.99	4.27	14.26	1.00	3.11	4.11	90.85	167.52	258.37			
1987	0.26	8.28	0.55	9.09	0.76	1.37	1.17	4.95	1.93	10.19	4.36	14.55	1.02	3.18	4.20	155.95	53.41	209.36			
1988	0.26	8.44	0.57	9.27	0.78	1.39	1.20	5.05	1.97	10.39	4.45	14.84	1.04	3.24	4.28	191.15	154.09	345.24			
1989	0.27	8.61	0.58	9.46	0.79	1.42	1.22	5.15	2.01	10.60	4.54	15.14	1.06	3.31	4.37	49.14	51.50	100.64			
1990	0.27	8.78	0.59	9.64	0.81	1.45	1.25	5.26	2.05	10.81	4.63	15.44	1.08	3.37	4.45	198.78	151.94	350.72			
1991	0.28	8.96	0.60	9.84	0.83	1.48	1.27	5.36	2.09	11.03	4.72	15.75	1.10	3.44	4.54	582.62	504.44	1,087.06			
1992	0.28	9.14	0.61	10.03	0.84	1.51	1.30	5.47	2.13	11.25	4.81	16.06	1.13	3.51	4.63	176.79	258.45	435.24			
1993	0.29	9.32	0.62	10.23	0.86	1.54	1.32	5.58	2.17	11.48	4.91	16.38	1.15	3.58	4.73	89.19	59.95	149.14			
1994	0.30	9.51	0.64	10.44	0.88	1.57	1.35	5.69	2.22	11.71	5.01	16.71	1.17	3.65	4.82	56.25	50.64	106.89			
1995	0.30	9.70	0.65	10.65	0.90	1.60	1.38	5.80	2.26	11.94	5.11	17.05	1.19	3.72	4.92	79.84	78.65	158.49			
1996	0.31	9.89	0.66	10.86	0.91	1.63	1.40	5.92	2.31	12.18	5.21	17.39	1.22	3.80	5.01	54.25	49.59	103.84			
1997	0.31	10.09	0.68	11.08	0.93	1.67	1.43	6.04	2.35	12.42	5.31	17.74	1								

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HOJA DATOS

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CALCULO DEL ESCURRIMIENTO VIRGEN EN LAS SUBCUENCIAS
V10 SAN MIGUEL, V11 EL SALTO Y V12 LA CUÑA (Mm³)

AÑO	Ab	Ex	Ev	Uc	Ar	Im	R	DELTA V	Cp
1945	468.219		3.956	6.333	210.795		1.826		265.886
1946	449.220		4.035	6.460	198.932		1.863		258.920
1947	560.022		4.116	6.589	268.119		1.900		300.708
1948	757.539		4.198	6.721	384.436		1.938		382.083
1949	388.014		4.282	6.855	175.596		1.977		221.578
1950	413.237		4.368	6.992	212.307		2.017		210.274
1951	437.659		4.455	7.132	208.641		2.057		238.549
1952	548.992		4.544	7.275	233.990		2.098		324.724
1953	518.656		4.635	7.420	263.845		2.140		264.726
1954	302.673		4.728	7.569	177.709		2.183		135.078
1955	973.118		4.822	7.720	490.844		2.226		492.590
1956	492.605		4.919	7.875	228.900		2.271		274.228
1957	171.576		5.017	8.032	115.034		2.316		67.275
1958	1,570.235		5.118	8.193	946.547		2.363		634.636
1959	527.715		5.220	8.357	245.371		2.410		293.510
1960	325.349		5.324	8.524	151.757		2.458		184.982
1961	358.296		5.431	8.694	103.481		2.507		266.432
1962	437.504		5.540	8.868	206.324		2.557		243.030
1963	922.081		5.650	9.045	246.665		2.609		687.503
1964	410.200		5.763	9.226	185.720		2.661		236.809
1965	1,241.029		5.879	9.411	589.847		2.714		663.757
1966	602.290		5.996	9.599	341.103		2.768		274.014
1967	1,899.260		6.116	9.791	939.629		2.824		972.715
1968	593.079		6.238	9.987	215.942		2.880		390.482
1969	195.763		6.363	10.187	82.339		2.938		127.036
1970	872.967		6.490	10.390	403.277		2.997		483.574
1971	1,366.076		6.620	10.598	910.139		3.056		470.099
1972	274.666		6.753	10.810	116.103		3.118		173.008
1973	1,969.912		6.888	11.026	1,043.840		3.180		940.806
1974	364.506		7.025	11.247	140.708		3.244		238.827
1975	864.459		7.166	11.472	401.732		3.308		478.056
1976	1,448.454		7.309	11.701	1,023.239		3.375		440.851
1977	570.023		7.455	11.935	231.512		3.442		354.460
1978	462.136		7.605	12.174	234.448		3.511		243.956
1979	216.733		7.757	12.418	84.928		3.581		148.398
1980	489.633		7.912	12.666	224.167		3.653		282.391
1981	272.694		8.070	12.919	88.707		3.726		201.251
1982	237.385		8.231	13.178	66.659		3.800		188.334
1983	481.728		8.396	13.441	219.231		3.876		280.458
1984	445.790		8.564	13.710	196.790		3.954		267.319
1985	347.673		8.735	13.984	135.525		4.033		230.835
1986	793.196		8.910	14.264	258.373		4.114		553.883
1987	255.701		9.088	14.549	209.360		4.196		65.782
1988	694.856		9.270	14.840	345.241		4.280		369.445
1989	226.291		9.455	15.137	100.636		4.365		145.882
1990	784.321		9.644	15.440	350.718		4.453		454.234
1991	1,723.019		9.837	15.748	1,087.059		4.542		657.004
1992	946.124		10.034	16.063	435.240		4.633		532.349
1993	325.676		10.235	16.385	149.136		4.725		198.434
1994	243.092		10.439	16.712	106.890		4.820		158.534
1995	457.311		10.648	17.047	158.485		4.916		321.605
1996	218.399		10.861	17.388	103.842		5.014		137.791
1997	126.766		11.078	17.735	184.726		5.115		(34.261)

PROMEDIO	623.470		6.928	11.091	310.087		3.199		328.204
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SAN GASPAR
P. SABINO

LA CUÑA