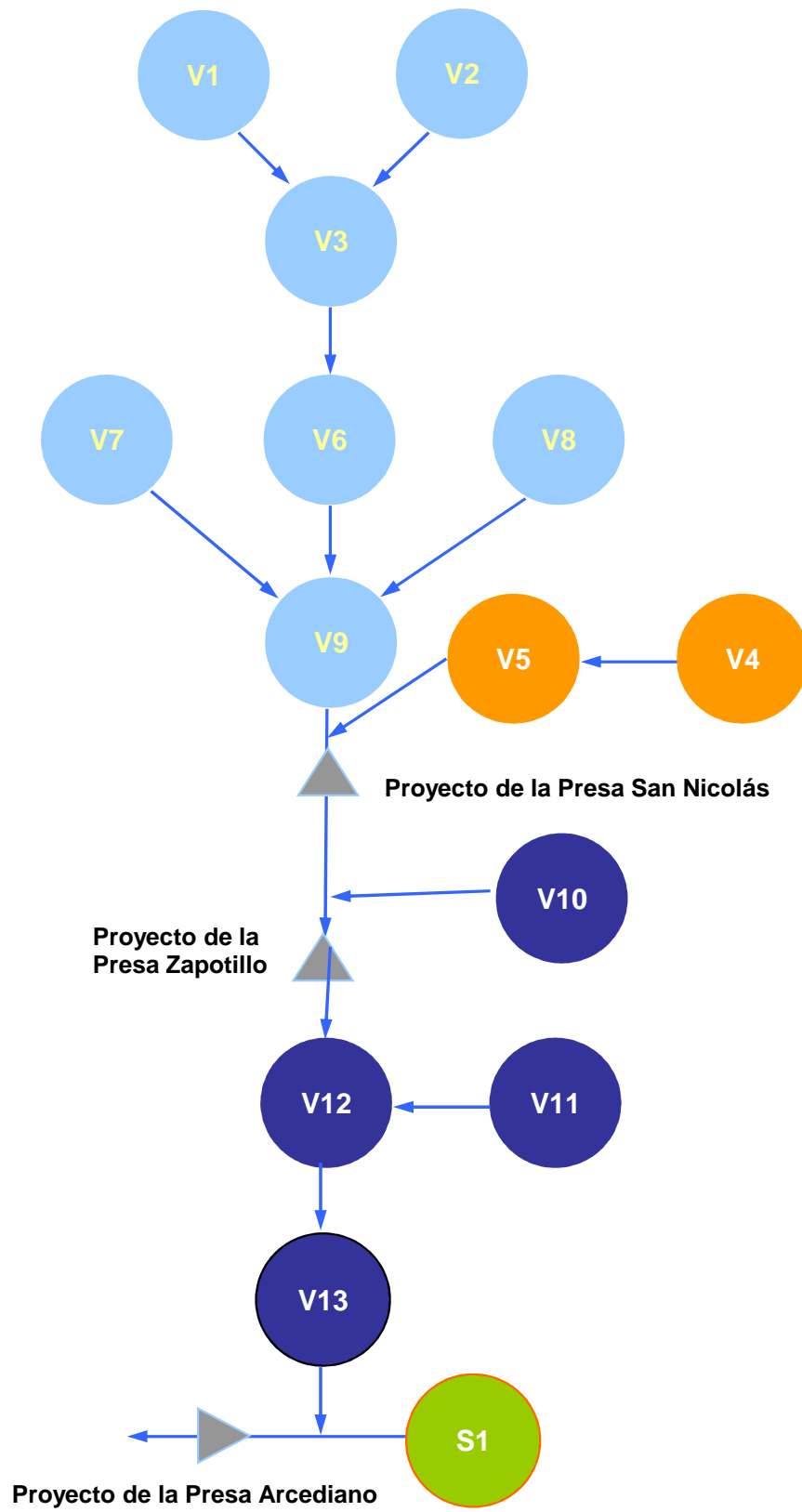


Año	Subcuenca												Total
	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	
2005	15.216	2.855	85.722	24.512	58.705	15.524	1.827	35.448	9.97	4.332	2.015	11.962	268.088
2006	15.263	2.866	85.845	24.537	58.79	15.539	1.839	35.511	9.991	4.367	2.026	12.033	268.607
2007	15.31	2.878	85.972	24.561	58.877	15.553	1.852	35.575	10.012	4.402	2.038	12.106	269.137
2008	15.358	2.89	86.1	24.587	58.966	15.568	1.865	35.64	10.034	4.438	2.05	12.181	269.677
2009	15.407	2.903	86.232	24.612	59.056	15.583	1.878	35.706	10.057	4.475	2.063	12.256	270.228
2010	15.457	2.915	86.366	24.639	59.149	15.599	1.891	35.774	10.079	4.512	2.075	12.334	270.79
2011	15.509	2.928	86.503	24.665	59.243	15.615	1.905	35.843	10.102	4.55	2.088	12.413	271.364
2012	15.561	2.941	86.642	24.693	59.339	15.631	1.919	35.913	10.126	4.589	2.101	12.493	271.949
2013	15.614	2.955	86.784	24.72	59.437	15.647	1.933	35.985	10.15	4.629	2.115	12.575	272.545
2014	15.668	2.969	86.929	24.749	59.537	15.664	1.947	36.059	10.175	4.67	2.129	12.659	273.154
2015	15.724	2.983	87.077	24.778	59.639	15.681	1.962	36.133	10.2	4.711	2.143	12.744	273.774
2016	15.78	2.997	87.228	24.807	59.743	15.698	1.977	36.21	10.225	4.753	2.157	12.831	274.407
2017	15.838	3.011	87.382	24.838	59.849	15.716	1.992	36.287	10.252	4.796	2.171	12.92	275.053
2018	15.897	3.026	87.539	24.868	59.957	15.734	2.008	36.367	10.278	4.84	2.186	13.011	275.712
2019	15.956	3.041	87.7	24.9	60.067	15.753	2.024	36.448	10.305	4.885	2.201	13.103	276.384
2020	16.018	3.057	87.863	24.932	60.18	15.771	2.04	36.53	10.333	4.931	2.217	13.197	277.069
2021	16.08	3.072	88.03	24.964	60.295	15.791	2.057	36.614	10.361	4.978	2.232	13.294	277.768
2022	16.144	3.088	88.2	24.998	60.412	15.81	2.074	36.7	10.39	5.025	2.248	13.392	278.481
2023	16.208	3.105	88.373	25.031	60.531	15.83	2.091	36.788	10.42	5.074	2.265	13.492	279.208
2024	16.275	3.122	88.55	25.066	60.653	15.851	2.109	36.877	10.45	5.123	2.282	13.594	279.95
2025	16.342	3.139	88.73	25.101	60.777	15.872	2.127	36.968	10.48	5.173	2.299	13.698	280.706
2026	16.411	3.156	88.914	25.137	60.904	15.893	2.145	37.061	10.511	5.225	2.316	13.804	281.478
2027	16.481	3.174	89.102	25.174	61.033	15.914	2.164	37.156	10.543	5.277	2.334	13.912	282.265
2028	16.553	3.192	89.293	25.212	61.165	15.937	2.183	37.253	10.576	5.331	2.352	14.023	283.068
2029	16.626	3.21	89.489	25.25	61.3	15.959	2.202	37.352	10.609	5.386	2.37	14.135	283.887
2030	16.7	3.229	89.688	25.289	61.437	15.982	2.222	37.452	10.643	5.441	2.389	14.25	284.723
2031	16.776	3.248	89.891	25.329	61.577	16.005	2.242	37.555	10.677	5.498	2.408	14.367	285.575
2032	16.854	3.268	90.098	25.369	61.719	16.029	2.263	37.66	10.712	5.556	2.428	14.487	286.444
2033	16.933	3.288	90.31	25.411	61.865	16.054	2.284	37.766	10.748	5.615	2.448	14.609	287.33
2034	17.014	3.308	90.525	25.453	62.014	16.079	2.306	37.875	10.785	5.676	2.468	14.733	288.234
2035	17.096	3.329	90.745	25.496	62.165	16.104	2.328	37.986	10.822	5.737	2.489	14.86	289.157
2036	17.18	3.35	90.969	25.54	62.32	16.13	2.35	38.1	10.86	5.8	2.51	14.99	290.097
2037	17.265	3.372	91.198	25.585	62.477	16.156	2.373	38.215	10.899	5.864	2.532	15.122	291.057
2038	17.353	3.394	91.432	25.63	62.638	16.183	2.396	38.333	10.938	5.929	2.554	15.256	292.036
2039	17.442	3.416	91.67	25.677	62.802	16.211	2.42	38.453	10.979	5.996	2.576	15.394	293.034
2040	17.533	3.439	91.912	25.725	62.969	16.239	2.444	38.576	11.02	6.064	2.599	15.534	294.052
2041	17.625	3.462	92.16	25.773	63.14	16.267	2.469	38.701	11.062	6.133	2.622	15.677	295.091
2042	17.72	3.486	92.413	25.822	63.314	16.296	2.494	38.829	11.105	6.204	2.646	15.822	296.15
2043	17.816	3.511	92.67	25.873	63.491	16.326	2.519	38.959	11.148	6.276	2.671	15.971	297.231
2044	17.914	3.535	92.933	25.924	63.672	16.357	2.546	39.092	11.193	6.349	2.695	16.123	298.333
2045	18.015	3.561	93.201	25.977	63.857	16.387	2.572	39.227	11.238	6.424	2.721	16.277	299.457
2046	18.117	3.586	93.475	26.03	64.045	16.419	2.6	39.365	11.285	6.501	2.746	16.435	300.604
2047	18.221	3.613	93.753	26.085	64.237	16.451	2.627	39.506	11.332	6.579	2.773	16.596	301.774

2048	18.328	3.64	94.038	26.141	64.433	16.484	2.656	39.65	11.38	6.658	2.8	16.76	302.967
2049	18.436	3.667	94.328	26.198	64.633	16.517	2.685	39.797	11.429	6.739	2.827	16.927	304.184
2050	18.547	3.695	94.624	26.255	64.837	16.552	2.714	39.946	11.48	6.822	2.855	17.098	305.425
2051	18.66	3.723	94.926	26.315	65.045	16.586	2.744	40.099	11.531	6.907	2.883	17.272	306.691
2052	18.775	3.753	95.234	26.375	65.257	16.622	2.775	40.254	11.583	6.993	2.913	17.45	307.983
2053	18.893	3.782	95.548	26.436	65.473	16.658	2.806	40.413	11.636	7.081	2.942	17.631	309.3
2054	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643
2055	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643
2056	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643
2057	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643
2058	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643
2059	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643
2060	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643
2061	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643
2062	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643
2063	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643
2064	19.013	3.812	95.868	26.499	65.694	16.695	2.838	40.575	11.691	7.17	2.972	17.816	310.643



Cálculo del escurrimiento disponible en la subcuenca V1 San Francisco de los Romo

Demandas actuales (Mm³):

Futuros 2% incremento

Capacidad de almacenamiento (Mm³):

riego		pecuario	urbano	total

mínima	máxima

$$\text{Esc disp} = \text{Cp} + \text{Ar disp} + \text{R} + \text{Im} - (\text{Uc} + \text{Ev} + \text{Ex} + \text{DV})$$

Año	Año proyectado	Salidas históricas (Mm³)				Entradas históricas (Mm³)			Δ V	Cp	Escorrimento (Mm³)								Usos actuales (Mm³)		Escorrimento disponible (Mm³)		
		Ab	Ex	Ev	Uc	Ar	Im	R			CP+Esc. disp. Ar'	Usos Proy	menos usos actuales (Uc+Ev)	excedente	almacenado	deficit	derrames	Δ V'	Uc real-Uc total actual-deficit	R real			
1945	2005	0.921		0.700	5.346			1.518		5.449	5.449	15.216	(10.467)	-	-	10.467	-	-	-	-	4.749	1.348	0.921
1946	2006	0.072		0.700	5.453			1.548		4.677	4.677	15.263	(11.286)	-	-	11.286	-	-	-	-	3.977	1.129	0.072
1947	2007	4.076		0.700	5.562			1.579		8.759	8.759	15.310	(7.251)	-	-	7.251	-	-	-	-	8.059	1.288	2.288
1948	2008	13.047		0.700	5.673			1.611		17.810	17.810	15.358	1.752	1.752	1.752	-	-	-	1.752	15.358	4.360	4.360	
1949	2009	2.280		0.700	5.787			1.643		7.124	7.124	15.407	(8.983)	-	-	7.231	-	-	1.752	8.176	2.321	2.280	
1950	2010	2.276		0.700	5.902			1.676		7.203	7.203	15.457	(8.954)	-	-	8.954	-	-	-	6.503	1.846	1.846	
1951	2011	10.048		0.700	6.020			1.709		15.059	15.059	15.509	(1.150)	-	-	1.150	-	-	-	14.359	4.076	4.076	
1952	2012	4.608		0.700	6.141			1.743		9.706	9.706	15.561	(6.555)	-	-	6.555	-	-	-	9.006	2.557	2.557	
1953	2013	7.323		0.700	6.264			1.778		12.509	12.509	15.614	(3.805)	-	-	3.805	-	-	-	11.809	3.352	3.352	
1954	2014	21.213		0.700	6.389			1.814		26.488	26.488	15.668	10.120	10.120	10.120	-	-	10.120	15.668	4.448	4.448		
1955	2015	8.828		0.700	6.517			1.850		14.195	14.195	15.724	(2.229)	-	-	7.891	-	-	2.229	15.724	4.464	4.464	
1956	2016	17.910		0.700	6.647			1.887		23.370	23.370	15.780	6.890	6.890	11.000	-	-	3.781	11.000	15.780	4.480	8.261	
1957	2017	8.102		0.700	6.780			1.925		13.657	13.657	15.838	(2.881)	-	-	8.119	-	-	2.881	15.838	4.496	4.496	
1958	2018	9.892		0.700	6.916			1.963		15.544	15.544	15.897	(1.053)	-	-	7.067	-	-	1.053	15.897	4.513	4.513	
1959	2019	9.683		0.700	7.054			2.003		15.435	15.435	15.956	(1.221)	-	-	5.845	-	-	1.221	15.956	4.530	4.530	
1960	2020	11.597		0.700	7.195			2.043		17.450	17.450	16.018	0.732	0.732	6.577	-	-	0.732	16.018	4.547	4.547		
1961	2021	6.340		0.700	7.339			2.083		12.295	12.295	16.080	(4.485)	-	-	2.092	-	-	4.485	16.080	4.565	4.565	
1962	2022	3.808		0.700	7.486			2.125		9.868	9.868	16.144	(6.976)	-	-	4.884	-	-	2.092	11.260	3.197	3.197	
1963	2023	4.641		0.700	7.635			2.168		10.809	10.809	16.208	(6.099)	-	-	6.099	-	-	-	10.109	2.870	2.870	
1964	2024	6.007		0.700	7.788			2.211		12.284	12.284	16.275	(4.691)	-	-	4.691	-	-	-	11.584	3.289	3.289	
1965	2025	2.123		0.700	7.944			2.255		8.512	8.512	16.342	(8.530)	-	-	8.530	-	-	-	7.812	2.218	2.123	
1966	2026	6.072		0.700	8.103			2.300		12.574	12.574	16.411	(4.537)	-	-	4.537	-	-	-	11.874	3.371	3.371	
1967	2027	9.658		0.700	8.265			2.346		16.277	16.277	16.481	(0.904)	-	-	0.904	-	-	-	15.577	4.422	4.422	
1968	2028	11.140		0.700	8.430			2.393		17.877	17.877	16.553	0.624	0.624	0.624	-	-	0.624	16.553	4.699	4.699		
1969	2029	19.067		0.700	8.599			2.441		25.925	25.925	16.626	8.599	8.599	9.223	-	-	8.599	16.626	4.720	4.720		
1970	2030	8.092		0.700	8.771			2.490		15.073	15.073	16.700	(2.327)	-	-	6.895	-	-	2.327	16.700	4.741	4.741	
1971	2031	10.743		0.700	8.946			2.540		17.849	17.849	16.776	0.373	0.373	7.269	-	-	0.373	16.776	4.763	4.763		
1972	2032	17.121		0.700	9.125			2.591		24.355	24.355	16.854	6.801	6.801	11.000	-	-	3.070	3.731	16.854	4.785	7.854	
1973	2033	17.995		0.700	9.308			2.642		25.360	25.360	16.933	7.727	7.727	11.000	-	-	7.727	-	16.933	4.807	12.534	
1974	2034	10.226		0.700	9.494			2.695		17.725	17.725	17.014	0.011	0.011	11.000	-	-	0.011	-	17.014	4.830	4.841	
1975	2035	17.314		0.700	9.684			2.749		24.948	24.948	17.096	7.152	7.152	11.000	-	-	7.152	-	17.096	4.853	12.005	
1976	2036	17.319		0.700	9.877			2.804		25.092	25.092	17.180	7.212	7.212	11.000	-	-	7.212	-	17.180	4.877	12.090	
1977	2037	19.645		0.700	10.075			2.860		27.560	27.560	17.265	9.595	9.595	11.000	-	-	9.595	-	17.265	4.901	14.496	
1978	2038	18.947		0.700	10.276			2.917		27.005	27.005	17.353	8.952	8.952	11.000	-	-	8.952	-	17.353	4.926	13.879	
1979	2039	18.404		0.700	10.482			2.976		26.610	26.610	17.442	8.468	8.468	11.000	-	-	8.468	-	17.442	4.952	13.420	
1980	2040	13.888		0.700	10.691			3.035		22.244	22.244	17.533	4.011	4.011	11.000	-	-	4.011	-	17.533	4.977	8.988	
1981	2041	10.226		0.700	10.905			3.096		18.735	18.735	17.625	0.410	0.410	11.000	-	-	0.410	-	17.625	5.004	5.414	
1982	2042	10.226		0.700	11.123			3.158		18.892	18.892	17.720	0.472	0.472	11.000	-	-	0.472	-	17.720	5.031	5.502	
1983	2043	10.226		0.700	11.346			3.221		19.051	19.051	17.816	0.535	0.535	11.000	-	-	0.535	-	17.816	5.058	5.593	
1984	2044	4.183		0.700	11.573			3.285		13.171	13.171	17.914	(5.443)	-	-	5.557	-	-	5.443	17.914	5.086	4.183	
1985	2045	13.969		0.700	11.804			3.351		23.122	23.122	18.015	4.407	4.407	9.964	-	-	4.407	-	18.015	5.114	5.114	
1986	2046	13.101		0.700	12.040			3.418		22.423	22.423	18.117	3.606	3.606	11.000	-	-	2.570	1.036	18.117	5.143	7.713	
1987	2047	13.262		0.700	12.281			3.486		22.756	22.756	18.221	3.835	3.835	11.000	-	-	3.835	-	18.221	5.173	9.008	
1988	2048	13.021		0.700	12.527			3.556		22.692	22.692	18.328	3.664	3.664	11.000	-	-	3.664	-	18.328	5.203	8.867	
1989	2049	13.192		0.700	12.777			3.627		23.042	23.042	18.436	3.906	3.906	11.000	-	-	3.906	-	18.436	5.234	9.139	
1990	2050	12.815		0.700	13.033			3.700		22.848	22.848	18.547	3.601	3.601	11.000	-	-	3.601	-	18.547	5.265	8.866	
1991	2051	10.745		0.700	13.293			3.774		20.965	20.965	18.660	1.605	1.605	11.000	-	-	1.605	-	18.660	5.297	6.902	
1992	2052	12.766		0.700	13.559			3.849		23.176	23.176	18.775	3.701	3.701	11.000	-	-	3.701	-	18.775	5.330	9.031	
1993	2053	13.141		0.700	13.831			3.926		23.745	23.745	18.893	4.152	4.152	11.000	-	-	4.152	-	18.893	5.364	9.516	
1994	2054	13.140		0.700	14.107			4.005		23.942	23.942	19.013	4.229	4.229	11.000	-	-	4.229	-	19.013	5.398	9.627	
1995	2055	10.689		0.700	14.240			4.043		21.586	21.586	19.013	1.873	1.873	11.000	-	-	1.873	-	19.013	5.398	7.271	
1996	2056	10.689		0.700	14.374			4.081		21.682	21.682	19.013	1.969	1.969	11.000	-	-	1.969	-	19.013	5.398	7.367	
1997	2057	10.689		0.700	14.507			4.118		21.777	21.777	19.013	2.064	2.064	11.000	-	-	2.064	-	19.013	5.398	7.462	
1998	2058	10.689		0.700	14.640			4.156		21.873	21.873	19.013	2.160	2.160	11.000	-	-	2.160	-	19.013	5.398	7.557	
1999	2059	10.689		0.700	14.773			4.194		21.968	21.968	19.013	2.255	2.255	11.000	-	-	2.255	-	19.013	5.398	7.653	
2000	2060	10.689		0.700	14.907			4.232		22.064	22.064	19.013	2.351	2.351	11.000	-	-	2.351	-	19.013	5.398	7.748	
2001	2061	10.689		0.700	15.040			4.270		22.159	22.159	19.013	2.446	2.446	11.000	-	-	2.446	-	19.013	5.398	7.844	
2002	2062	10.689		0.700	15.182			4.310		22.261	22.261	19.013	2.548	2.548	11.000	-	-	2.548	-	19.013	5.398	7.945	
2003	2063	10.689		0.700	15.322			4.350		22.361	22.361	19.013	2.648	2.648	11.000	-							

Capacidad de almacenamiento (Mm³):

mínima	máxima
0	364.1

Cálculo del escurrimiento disponible en la subcuenca V2 Presa Calles

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$$\text{Esc disp} = \text{Cp} + \text{Ar disp} + \text{R} + \text{Im} - (\text{Uc} + \text{Ev} + \text{Ex} + \text{DV})$$

Año	Año proyectado	Salidas históricas (Mm³)				Entradas históricas (Mm³)			Δ V	Cp	Escorrimento (Mm³)							Usos actuales (Mm³)			Escorrimento disponible (Mm³)
		Ab	Ex	Ev	Uc	Ar	Im	R			CP+Esc. disp. Ar'	Usos Proy	menos usos actuales (Uc+Ev+Im)	excedente	almacenado	deficit	derrames	Δ V'	Uc real-Uc total actual-deficit	R real	
1945	2005	31.040	-	10.010	0.928	-	1.158	0.147	(27.540)	13.132	13.132	2.855	0.267	0.267	364.100	-	-	-	2.855	0.454	0.721
1946	2006	22.645	-	3.343	0.946	-	0.358	0.150	(13.620)	12.806	12.806	2.866	6.597	6.597	364.100	-	6.597	-	2.866	0.455	7.052
1947	2007	4.990	-	4.226	0.965	-	10.036	0.153	27.190	27.182	27.182	2.878	20.078	20.078	364.100	-	20.078	-	2.878	0.457	4.990
1948	2008	31.789	-	8.538	0.985	-	15.720	0.156	(0.406)	25.029	25.029	2.890	13.601	13.601	364.100	-	13.601	-	2.890	0.459	14.060
1949	2009	33.014	-	7.133	1.004	-	2.951	0.160	(21.270)	16.771	16.771	2.903	6.735	6.735	364.100	-	6.735	-	2.903	0.461	7.196
1950	2010	14.824	-	4.623	1.024	-	6.386	0.163	5.837	19.760	19.760	2.915	12.222	12.222	364.100	-	12.222	-	2.915	0.463	12.685
1951	2011	15.511	-	5.581	1.045	-	12.731	0.166	5.479	14.719	14.719	2.928	6.210	6.210	364.100	-	6.210	-	2.928	0.465	6.675
1952	2012	24.250	-	5.096	1.066	-	3.192	0.169	(13.640)	13.410	13.410	2.941	5.373	5.373	364.100	-	5.373	-	2.941	0.467	5.841
1953	2013	6.675	-	2.777	1.087	-	8.715	0.173	8.513	10.164	10.164	2.955	4.432	4.432	364.100	-	4.432	-	2.955	0.469	4.902
1954	2014	14.086	-	5.273	1.109	-	2.850	0.176	(6.081)	11.361	11.361	2.969	3.119	3.119	364.100	-	3.119	-	2.969	0.472	3.590
1955	2015	10.757	-	6.093	1.131	-	30.977	0.180	53.640	40.464	40.464	2.983	31.388	31.388	364.100	-	31.388	-	2.983	0.474	10.757
1956	2016	51.675	-	12.270	1.154	-	17.539	0.183	(18.740)	28.636	28.636	2.997	13.369	13.369	364.100	-	13.369	-	2.997	0.476	13.845
1957	2017	41.182	-	7.696	1.177	-	3.965	0.187	(30.840)	15.063	15.063	3.011	4.356	4.356	364.100	-	4.356	-	3.011	0.478	4.834
1958	2018	7.420	-	7.817	1.200	-	37.962	0.191	108.500	86.784	86.784	3.026	75.941	75.941	364.100	-	75.941	-	3.026	0.481	7.420
1959	2019	40.726	-	19.700	1.224	-	13.087	0.194	(26.960)	21.409	21.409	3.041	(1.332)	-	362.768	-	-	1.332	3.041	0.483	0.483
1960	2020	48.606	-	16.898	1.249	-	3.406	0.198	(51.053)	12.095	12.095	3.057	(7.860)	-	354.908	-	-	7.860	3.057	0.486	0.486
1961	2021	26.663	-	10.031	1.274	-	2.785	0.202	(24.718)	10.262	10.262	3.072	(2.841)	-	352.067	-	-	2.841	3.072	0.488	0.488
1962	2022	16.016	-	6.148	1.299	-	6.239	0.206	4.394	21.412	21.412	3.088	12.176	12.176	364.100	-	0.143	12.033	3.088	0.491	0.634
1963	2023	19.520	-	6.895	1.325	-	8.092	0.211	1.960	21.398	21.398	3.105	11.398	11.398	364.100	-	11.398	-	3.105	0.493	11.891
1964	2024	25.266	-	5.857	1.352	-	6.230	0.215	(9.786)	16.244	16.244	3.122	7.265	7.265	364.100	-	7.265	-	3.122	0.496	7.761
1965	2025	8.930	-	5.515	1.379	-	21.257	0.219	22.319	16.667	16.667	3.139	8.013	8.013	364.100	-	8.013	-	3.139	0.499	8.511
1966	2026	25.538	-	9.945	1.406	-	25.569	0.223	47.414	58.511	58.511	3.156	45.410	45.410	364.100	-	45.410	-	3.156	0.501	25.538
1967	2027	40.623	-	14.641	1.434	-	39.884	0.228	76.966	93.552	93.552	3.174	75.737	75.737	364.100	-	75.737	-	3.174	0.504	40.623
1968	2028	46.854	-	21.580	1.463	-	26.308	0.232	15.604	58.961	58.961	3.192	34.189	34.189	364.100	-	34.189	-	3.192	0.507	34.696
1969	2029	80.194	-	23.706	1.492	-	0.813	0.237	92.466	196.808	196.808	3.210	169.892	169.892	364.100	-	169.892	-	3.210	0.510	80.194
1970	2030	34.034	-	16.806	1.522	-	27.324	0.242	30.792	55.588	55.588	3.229	35.553	35.553	364.100	-	35.553	-	3.229	0.513	34.034
1971	2031	45.183	-	20.251	1.553	-	56.206	0.247	102.732	113.266	113.266	3.248	89.767	89.767	364.100	-	89.767	-	3.248	0.516	45.183
1972	2032	72.007	-	25.628	1.584	-	18.800	0.252	(43.869)	36.298	36.298	3.268	7.402	7.402	364.100	-	7.402	-	3.268	0.519	7.921
1973	2033	75.686	-	25.485	1.615	-	41.900	0.257	60.613	121.243	121.243	3.288	92.470	92.470	364.100	-	92.470	-	3.288	0.522	75.686
1974	2034	77.393	-	26.870	1.648	-	8.680	0.262	(74.734)	22.235	22.235	3.308	(7.943)	-	356.157	-	-	7.943	3.308	0.526	0.526
1975	2035	72.820	-	21.634	1.681	-	18.800	0.267	(34.360)	42.708	42.708	3.329	17.745	17.745	364.100	-	9.801	7.943	3.329	0.529	10.330
1976	2036	72.843	-	18.620	1.714	-	29.700	0.272	75.828	139.033	139.033	3.350	117.063	117.063	364.100	-	117.063	-	3.350	0.532	72.843
1977	2037	82.626	-	23.134	1.748	-	4.020	0.278	(68.370)	34.841	34.841	3.372	8.335	8.335	364.100	-	8.335	-	3.372	0.536	8.870
1978	2038	79.689	-	12.851	1.783	-	26.900	0.283	-	67.140	67.140	3.394	50.895	50.895	364.100	-	50.895	-	3.394	0.539	51.434
1979	2039	77.407	-	12.851	1.819	-	0.840	0.289	-	90.948	90.948	3.416	74.681	74.681	364.100	-	74.681	-	3.416	0.543	75.224
1980	2040	57.605	-	12.851	1.855	-	-	0.295	-	72.017	72.017	3.439	55.727	55.727	364.100	-	55.727	-	3.439	0.546	56.273
1981	2041	56.887	-	4.600	1.893	-	-	0.301	1.760	64.838	64.838	3.462	56.776	56.776	364.100	-	56.776	-	3.462	0.550	56.887
1982	2042	56.922	-	7.582	1.930	-	-	0.307	-	66.128	66.128	3.486	55.060	55.060	364.100	-	55.060	-	3.486	0.554	55.613
1983	2043	58.061	-	6.875	1.969	-	-	0.313	38.880	105.473	105.473	3.511	95.087	95.087	364.100	-	95.087	-	3.511	0.558	58.061
1984	2044	17.595	-	10.299	2.008	-	-	0.319	2.805	32.388	32.388	3.535	18.554	18.554	364.100	-	18.554	-	3.535	0.562	17.595
1985	2045	58.754	-	12.851	2.049	-	-	0.325	-	73.328	73.328	3.561	56.916	56.916	364.100	-	56.916	-	3.561	0.566	57.482
1986	2046	57.885	-	14.870	2.090	-	-	0.332	19.935	94.448	94.448	3.586	75.992	75.992	364.100	-	75.992	-	3.586	0.570	57.885
1987	2047	58.825	-	15.848	2.131	-	-	0.339	(16.095)	60.370	60.370	3.613	40.909	40.909	364.100	-	40.909	-	3.613	0.574	41.483
1988	2048	57.419	-	14.947	2.174	-	-	0.345	(5.280)	68.915	68.915	3.640	50.328	50.328	364.100	-	50.328	-	3.640	0.578	50.906
1989	2049	58.415	-	12.730	2.217	-	-	0.352	(39.515)	33.496	33.496	3.667	17.099	17.099	364.100	-	17.099	-	3.667	0.583	17.681
1990	2050	56.217	-	10.652	2.262	-	-	0.359	65.640	134.411	134.411	3.695	120.064	120.064	364.100	-	120.064	-	3.695	0.587	56.217
1991	2051	44.127	-	20.585	2.307	-	-	0.367	155.075	221.728	221.728	3.723	197.420	197.420	364.100	-	197.420	-	3.723	0.591	44.127
1992	2052	55.932	-	27.680	2.353	-	-	0.374	7.200	92.791	92.791	3.753	61.358	61.358	364.100	-	61.358	-	3.753	0.596	55.932
1993	2053	58.120	-	26.635	2.400	-	-	0.381	(63.275)	23.499	23.499	3.782	(6.918)	-	357.182	-	-	6.918	3.782	0.601	0.601
1994	2054	58.113	-	20.871	2.448	-	-	0.389	(69.525)	11.518	11.518	3.812	(13.165)	-	344.017	-	-	13.165	3.812	0.606	0.606
1995	2055	47.947	-	12.017	2.500	-	-	0.397	247.540	309.606	309.606	3.812	293.778	293.778	364.100	-	273.695	20.083	3.812	0.606	47.947
1996	2056	64.017	-	17.971	2.552	-	-	0.405	(173.860)	(94.726)	-	3.812	(111.509)	-	252.591	-	-	111.509	3.812	0.606	0.606
1997	2057	62.458	-	18.912	2.603	-	-	0.414	(38.855)	44.704	44.704	3.812	21.981	21.981	274.572	-	-	21.981	3.812	0.606	0.606
1998	2058	26.041	-	11.862	2.655	-	-	0.422	(13.160)	26.977	26.977	3.812	11.302	11.302	285.874	-	-	11.302	3.812	0.606	0.606
1999	2059	21.658	-	9.793	2.707	-	-	0.430	(20.440)	13.288	13.288	3.812	(0.317)	-	285.557	-	-	0.317	3.812	0.606	0.606
2000	2060	1.360	-	8.231	2.758	-	-	0.438	10.637	22.548	22.548	3.812	10.505	10.505</							

Capacidad de almacenamiento (Mm³):

mínima	máxima
0	46.4

Cálculo del escurrimiento disponible en la subcuenca V3 Presa Niagara

$$\text{Esc disp} = \text{Cp} + \text{Ar disp} + \text{R} + \text{Im} - (\text{Uc} + \text{Ev} + \text{Ex} + \text{DV})$$

Año	Año proyectado	Salidas históricas (Mm³)				Entradas históricas (Mm³)			Δ V	Cp	Escorrimento (Mm³)							Usos actuales (Mm³)			Escorrimento disponible (Mm³)			
		Ab	Ex	Ev	Uc	Ar	Im	R			CP+Esc. disp. Ar'	Usos Proy	menos usos actuales (Uc+Ev+Im)	excedente	almacenado	deficit	derrames	Δ V'	Uc real-Uc total actual-deficit	R real				
1945	2005	59.011	1.158	7.308	30.509	31.961	-	10.648	(0.010)	55.366	57.008	85.722	(36.022)	-	46.400	-	36.022	-	-	-	-	49.700	17.346	17.346
1946	2006	59.773	0.358	7.079	31.119	22.717	-	10.861	0.133	64.884	72.008	85.845	(20.916)	-	25.484	-	-	-	20.916	-	-	85.845	29.962	29.962
1947	2007	61.376	10.036	7.109	31.742	9.066	-	11.079	0.553	90.672	97.949	85.972	4.868	4.868	30.352	-	-	4.868	-	-	85.972	30.006	30.006	
1948	2008	58.943	15.720	7.258	32.376	44.836	-	11.300	0.269	58.430	76.850	86.100	(16.508)	-	13.845	-	-	16.508	-	-	86.100	30.051	30.051	
1949	2009	58.831	2.951	7.209	33.024	35.294	-	11.526	0.054	55.250	64.726	86.232	(28.716)	-	-	-	14.871	-	-	13.845	71.361	24.907	24.907	
1950	2010	60.483	6.386	7.123	33.684	17.100	-	11.757	0.334	79.153	93.684	86.366	0.195	0.195	-	-	-	0.195	-	-	86.366	30.144	30.144	
1951	2011	60.421	12.731	7.156	34.358	25.559	-	11.992	0.330	77.445	88.196	86.503	(5.463)	-	-	-	5.268	-	-	0.195	81.235	28.353	28.353	
1952	2012	59.627	3.192	7.139	35.045	28.858	-	12.232	0.133	64.047	72.444	86.642	(21.337)	-	-	-	21.337	-	-	-	65.305	22.793	22.793	
1953	2013	61.223	8.715	7.059	35.746	13.998	-	12.476	0.361	86.630	94.884	86.784	1.041	1.041	1.041	-	-	1.041	-	-	86.784	30.290	30.290	
1954	2014	60.550	2.850	7.145	36.461	35.299	-	12.726	0.211	59.192	67.231	86.929	(26.844)	-	-	-	25.803	-	-	1.041	61.126	21.335	21.335	
1955	2015	60.852	30.977	7.173	37.190	19.585	-	12.980	0.826	104.454	119.674	87.077	25.424	25.424	25.424	-	-	-	-	25.424	87.077	30.392	30.392	
1956	2016	57.137	17.539	7.386	37.934	69.585	-	13.240	0.080	37.252	59.358	87.228	(35.256)	-	-	-	9.832	-	-	25.424	77.396	27.013	27.013	
1957	2017	58.090	3.965	7.229	38.693	49.284	-	13.505	(0.044)	45.143	54.473	87.382	(40.137)	-	-	-	40.137	-	-	-	47.245	16.490	16.490	
1958	2018	61.155	37.962	7.233	39.467	17.312	-	13.775	1.391	116.121	128.054	87.539	33.282	33.282	33.282	-	-	33.282	-	-	87.539	30.553	30.553	
1959	2019	58.131	13.087	7.642	40.256	50.409	-	14.050	(0.004)	54.652	59.665	87.700	(35.677)	-	-	-	2.395	-	-	33.282	85.305	29.774	29.774	
1960	2020	6.530	3.406	7.546	41.061	60.203	-	14.331	23.593	7.602	12.635	87.863	(82.774)	-	-	-	82.774	-	-	-	5.089	1.776	1.776	
1961	2021	4.380	2.785	7.309	41.882	33.003	-	14.618	1.000	9.736	14.789	88.030	(80.550)	-	-	-	80.550	-	-	-	7.480	2.611	2.611	
1962	2022	9.662	6.239	7.175	42.720	19.824	-	14.910	0.319	31.380	35.210	88.200	(60.164)	-	-	-	60.164	-	-	-	28.036	9.785	9.662	
1963	2023	60.057	8.092	7.201	43.574	24.161	-	15.209	0.294	79.848	94.609	88.373	(0.965)	-	-	-	0.965	-	-	-	87.408	30.507	30.507	
1964	2024	62.464	6.230	5.059	44.446	31.273	-	15.513	8.689	80.102	91.151	88.550	(2.458)	-	-	-	2.458	-	-	-	86.092	30.048	30.048	
1965	2025	32.573	21.257	8.417	45.335	11.053	-	15.823	2.154	82.859	93.494	88.730	(3.653)	-	-	-	3.653	-	-	-	85.077	29.694	29.694	
1966	2026	47.069	25.569	8.484	46.242	31.610	-	16.139	(0.270)	79.344	108.253	88.914	10.855	10.855	10.855	-	-	-	-	10.855	88.914	31.033	31.033	
1967	2027	119.050	39.884	8.215	47.166	50.281	-	16.462	0.513	148.085	193.130	89.102	95.813	95.813	46.400	-	-	60.268	-	-	35.545	89.102	31.099	91.367
1968	2028	20.349	26.308	8.165	48.110	57.994	-	16.791	(0.270)	27.876	67.271	89.293	(30.187)	-	-	-	16.213	-	-	-	30.187	89.293	31.165	20.349
1969	2029	3.965	0.813	9.160	49.072	99.261	-	17.127	57.994	4.616	89.530	89.489	(9.120)	-	-	-	7.094	-	-	9.120	89.489	31.234	3.965	
1970	2030	48.117	27.324	8.366	50.053	42.126	-	17.470	3.626	77.891	116.666	89.688	18.612	18.612	25.705	-	-	-	-	18.612	89.688	31.303	31.303	
1971	2031	94.115	56.206	9.076	51.054	55.926	-	17.819	(0.162)	136.544	186.490	89.891	87.523	87.523	46.400	-	-	66.828	-	-	20.695	89.891	31.374	94.115
1972	2032	55.813	18.800	8.849	52.075	89.128	-	18.176	(0.864)	27.371	43.146	90.098	(55.801)	-	-	-	9.401	-	-	-	46.400	80.697	28.165	28.165
1973	2033	98.406	41.900	9.385	53.117	93.681	-	18.539	0.783	91.371	179.591	90.310	79.896	79.896	46.400	-	-	33.496	-	-	46.400	90.310	31.520	65.017
1974	2034	56.972	8.680	8.123	54.179	87.619	-	18.910	(1.359)	20.066	25.432	90.525	(73.215)	-	-	-	26.815	-	-	-	46.400	63.710	22.236	22.236
1975	2035	31.947	18.800	8.182	55.263	90.134	-	19.288	33.091	37.861	60.196	90.745	(38.730)	-	-	-	38.730	-	-	-	52.015	18.154	18.154	
1976	2036	99.165	29.700	7.535	56.368	90.162	-	19.674	2.043	84.975	169.907	90.969	71.404	71.404	46.400	-	-	25.004	-	-	46.400	90.969	31.750	56.754
1977	2037	11.136	4.020	7.522	57.496	102.271	-	20.067	55.129	12.964	36.331	91.198	(62.389)	-	-	-	15.989	-	-	-	46.400	75.209	26.250	11.136
1978	2038	57.657	26.900	7.235	58.645	98.636	-	20.469	(0.189)	31.144	96.457	91.432	(2.210)	-	-	-	2.210	-	-	-	89.222	31.141	31.141	
1979	2039	62.418	0.840	6.957	59.818	95.811	-	20.878	(1.882)	11.462	100.106	91.670	1.479	1.479	1.479	-	-	-	-	1.479	91.670	31.995	31.995	
1980	2040	61.367	-	6.812	61.015	71.493	-	21.296	1.470	37.876	103.137	91.912	4.413	4.413	5.891	-	-	4.413	-	-	91.912	32.080	32.080	
1981	2041	65.757	-	6.642	62.235	67.113	-	21.722	(2.520)	43.280	105.581	92.160	6.778	6.778	12.670	-	-	6.778	-	-	92.160	32.166	32.166	
1982	2042	65.041	-	5.958	63.480	67.148	-	22.156	(1.865)	43.309	104.425	92.413	6.054	6.054	18.724	-	-	6.054	-	-	92.413	32.254	32.254	
1983	2043	41.976	-	6.907	64.749	68.287	-	22.599	4.865	27.611	91.265	92.670	(8.312)	-	-	-	10.412	-	-	-	8.312	92.670	32.344	32.344
1984	2044	30.353	-	7.379	66.044	21.778	-	23.051	(0.420)	58.527	80.306	92.933	(20.007)	-	-	-	9.595	-	-	-	10.412	83.338	29.087	29.087
1985	2045	38.674	-	7.879	67.365	72.723	-	23.512	1.020	18.703	81.299	93.201	(19.781)	-	-	-	19.781	-	-	-	73.420	25.625	25.625	
1986	2046	45.543	-	7.552	68.712	70.986	-	23.982	(0.340)	26.499	92.097	93.475	(8.929)	-	-	-	8.929	-	-	-	84.546	29.509	29.509	
1987	2047	26.526	-	7.781	70.087	72.086	-	24.462	(1.250)	6.595	57.086	93.753	(44.447)	-	-	-	44.447	-	-	-	49.306	17.209	17.209	
1988	2048	54.971	-	6.854	71.488	70.441	-	24.951	0.600	38.522	98.295	94.038	(2.597)	-	-	-	2.597	-	-	-	91.441	31.915	31.915	
1989	2049	34.809	-	6.886	72.918	71.607	-	25.450	0.970	18.526	45.346	94.328	(55.868)	-	-	-	55.868	-	-	-	38.460	13.424	13.424	
1990	2050	79.311	-	7.094	74.377	69.032	-	25.959	(0.240)	65.550	130.633	94.624	28.916	28.916	28.916	-	-	-	-	28.916	94.624	33.026	33.026	
1991	2051	324.048	-	7.476	75.864	54.872	-	26.478	0.360	326.397	377.427	94.926	275.025	275.025	46.400	-	-	257.540	-	-	17.484	94.926	33.132	290.672
1992	2052	85.083	-	6.554	77.381	68.698	-	27.008	0.020	73.332	138.295	95.234	36.507	36.507	46.400	-	-	36.507	-	-	95.234	33.239	69.746	
1993	2053	40.787	-	7.092	78.929	71.261	-	27.548	(0.240)	27.758	37.875	95.548	(64.765)	-	-	-	18.365	-	-	-	46.400	77.183	26.939	26.939
1994	2054	40.932	-	7.688	80.508	71.253	-	28.099	(0.780)	28.996	39.228	95.868	(64.328)	-	-	-	64.328	-	-	-	31.540	11.008	11.008	
1995	2055	35.817	-	7.688	81.185	58.636	-	28.336	(0.780)	36.939	92.157	95.868	(11.399)	-	-	-	11.399	-	-	-	84.469	29.482	29.482	
1996	2056	39.015	-	7.688	81.863	74.706	-	28.572	0.600	25.888	33.860	95.868	(69.696)	-	-	-	69.696	-	-	-	26.172	9.135	9.135	
1997																								

Capacidad de almacenamiento (Mm³):

0	62.6
mínima	máxima

Cálculo del escurrimiento disponible en la subcuenca V5 San Gaspar. Los usos contempla la cuenca V4

Ar=0 debido a que se considero una sola cuenca

$$\text{Esc disp} = \text{Cp} + \text{Ar disp} + \text{R} + \text{Im} - (\text{Uc} + \text{Ev} + \text{Ex} + \text{DV})$$

Año	Año proyectado	Salidas históricas (Mm³)						Entradas históricas (Mm³)					Cp	Escorrimento (Mm³)								Usos actuales (Mm³)		Escorrimento disponible (Mm³)	
		Ab	Ex	Ev	Ev (V4+V5)	Uc	Uc V4+V5	Ar	Im	R	R (V4+V5)	Δ V (V4+V5)		CP+Esc. disp. Ar	Usos Proy(V4+v5)	menos usos actuales	excedente	almacenado	deficit	derrames	D V'	Uc real	R real		
1945	2005	66.399		1.204	2.591	20.817	29.531	-		3.166	4.358	-	94.162	94.162	83.217	8.354	8.354	62.600	-	-	-	-	91.092	13.852	14.331
1946	2006	62.513		1.228	2.643	21.233	30.121	-		3.229	4.446	-	90.831	90.831	83.327	4.862	4.862	62.600	-	-	-	-	91.092	13.852	10.949
1947	2007	127.474		1.253	2.695	21.658	30.724	-		3.293	4.534	-	156.359	156.359	83.438	70.225	70.225	62.600	-	-	-	-	91.092	13.852	76.423
1948	2008	161.338		1.278	2.749	22.091	31.338	-		3.359	4.625	-	190.801	190.801	83.553	104.498	104.498	62.600	-	-	-	-	91.092	13.852	110.811
1949	2009	64.429		1.304	2.804	22.533	31.965	-		3.427	4.718	-	94.481	94.481	83.668	8.008	8.008	62.600	-	-	-	-	91.092	13.852	14.436
1950	2010	66.850		1.330	2.854	22.984	32.604	-		3.495	4.812	10.964	111.339	111.339	83.788	21.818	21.818	62.600	-	-	-	-	91.092	13.852	28.366
1951	2011	63.737		1.356	2.904	23.443	33.257	-		3.565	4.908	(8.516)	90.105	90.105	83.908	(0.339)	-	62.261	-	-	-	-	0.339	91.092	6.668
1952	2012	99.048		1.383	2.954	23.912	33.922	-		3.636	5.006	6.372	140.734	140.734	84.032	50.303	50.303	62.600	-	-	-	-	0.339	91.092	56.756
1953	2013	122.532		1.411	3.004	24.390	34.600	-		3.709	5.107	13.485	171.818	171.818	84.157	81.354	81.354	62.600	-	-	-	-	0.339	91.092	88.270
1954	2014	51.084		1.439	3.054	24.878	35.292	-		3.783	5.209	(11.160)	76.686	76.686	84.286	(14.279)	-	48.321	-	-	-	-	14.279	91.092	7.046
1955	2015	230.962		1.468	3.104	25.376	35.988	-		3.859	5.313	14.795	282.188	282.188	84.417	192.025	192.025	62.600	-	-	-	-	14.279	91.092	184.923
1956	2016	88.955		1.497	3.154	25.863	36.718	-		3.936	5.419	(1.965)	125.301	125.301	84.550	33.739	33.739	62.600	-	-	-	-	0.339	91.092	41.049
1957	2017	30.086		1.527	3.204	26.401	37.452	-		4.015	5.527	(10.011)	58.879	58.879	84.687	(32.687)	-	29.913	-	-	-	-	32.687	91.092	7.447
1958	2018	499.553		1.558	3.254	26.929	38.201	-		4.095	5.638	16.331	554.434	554.434	84.825	463.622	463.622	62.600	-	-	-	-	32.687	91.092	438.520
1959	2019	123.453		1.589	3.304	27.467	38.965	-		4.177	5.751	(3.485)	160.958	160.958	84.967	68.216	68.216	62.600	-	-	-	-	0.339	91.092	75.942
1960	2020	44.485		1.621	3.354	28.017	39.745	-		4.260	5.866	(14.761)	70.305	70.305	85.112	(21.509)	-	41.091	-	-	-	-	21.509	91.092	7.872
1961	2021	41.027		1.653	3.404	28.577	40.540	-		4.346	5.983	(5.015)	76.413	76.413	85.259	(14.691)	-	26.400	-	-	-	-	14.691	91.092	8.019
1962	2022	90.944		1.686	3.454	29.149	41.350	-		4.433	6.103	1.800	133.459	133.459	85.410	42.582	42.582	62.600	-	-	-	-	0.339	91.092	14.552
1963	2023	131.465		1.720	3.504	29.732	42.177	-		4.521	6.225	(0.165)	172.834	172.834	85.562	81.690	81.690	62.600	-	-	-	-	0.339	91.092	90.012
1964	2024	93.959		1.754	3.554	30.326	43.021	-		4.612	6.349	19.123	155.844	155.844	85.719	64.035	64.035	62.600	-	-	-	-	0.339	91.092	72.513
1965	2025	401.440		1.790	3.604	30.933	43.881	-		4.704	6.476	0.245	446.409	446.409	85.878	353.212	353.212	62.600	-	-	-	-	0.339	91.092	361.850
1966	2026	161.890		1.825	3.654	31.551	44.759	-		4.798	6.606	(1.248)	206.133	206.133	86.041	112.754	112.754	62.600	-	-	-	-	0.339	91.092	121.555
1967	2027	418.481		1.862	3.704	32.182	45.654	-		4.894	6.738	1.949	466.577	466.577	86.207	373.139	373.139	62.600	-	-	-	-	0.339	91.092	382.106
1968	2028	82.414		1.899	3.754	32.826	46.567	-		4.992	6.873	(4.707)	124.711	124.711	86.377	31.024	31.024	62.600	-	-	-	-	0.339	91.092	40.161
1969	2029	24.942		1.937	3.804	33.483	47.499	-		5.092	7.010	(18.996)	53.244	53.244	86.550	(40.116)	-	22.484	-	-	-	-	40.116	91.092	9.310
1970	2030	192.787		1.976	3.854	34.152	48.448	-		5.193	7.150	16.811	257.219	257.219	86.726	164.170	164.170	62.600	-	-	-	-	40.116	91.092	133.540
1971	2031	518.085		2.015	3.904	34.835	49.417	-		5.297	7.293	5.669	573.225	573.225	86.906	478.972	478.972	62.600	-	-	-	-	0.339	91.092	488.638
1972	2032	48.771		2.056	3.954	35.532	50.406	-		5.403	7.439	0.360	99.847	99.847	87.088	5.010	5.010	62.600	-	-	-	-	0.339	91.092	14.857
1973	2033	476.342		2.097	4.004	36.243	51.414	-		5.511	7.588	0.116	528.237	528.237	87.276	433.008	433.008	62.600	-	-	-	-	0.339	91.092	443.044
1974	2034	73.337		2.139	4.054	36.968	52.442	-		5.622	7.740	(6.536)	119.318	119.318	87.467	24.036	24.036	62.600	-	-	-	-	0.339	91.092	34.263
1975	2035	209.683		2.181	4.104	37.707	53.491	-		5.734	7.895	4.333	267.351	267.351	87.661	171.951	171.951	62.600	-	-	-	-	0.339	91.092	182.372
1976	2036	552.821		2.225	4.154	38.461	54.561	-		5.849	8.052	4.819	611.942	611.942	87.860	516.288	516.288	62.600	-	-	-	-	0.339	91.092	526.908
1977	2037	108.217		2.270	4.204	39.230	55.652	-		5.966	8.214	(3.140)	160.428	160.428	88.062	64.454	64.454	62.600	-	-	-	-	0.339	91.092	75.275
1978	2038	86.812		2.315	4.254	40.015	56.765	-		6.085	8.378	0.744	143.934	143.934	88.268	47.675	47.675	62.600	-	-	-	-	0.339	91.092	58.703
1979	2039	35.371		2.361	4.304	40.815	57.900	-		6.207	8.545	(17.939)	74.759	74.759	88.479	(21.692)	-	40.908	-	-	-	-	21.692	91.092	11.239
1980	2040	155.951		2.409	4.354	41.631	59.058	-		6.331	8.716	-	211.475	211.475	88.694	117.600	117.600	62.600	-	-	-	-	21.692	91.092	107.362
1981	2041	36.760		2.457	4.404	42.464	60.240	-		6.457	8.891	-	93.394	93.394	88.913	(0.804)	-	61.796	-	-	-	-	0.804	91.092	11.673
1982	2042	12.300		2.506	4.454	43.313	61.444	-		6.587	9.068	-	70.066	70.066	89.136	(24.460)	-	37.336	-	-	-	-	24.460	91.092	11.896
1983	2043	92.105		2.556	4.504	44.180	62.673	-		6.718	9.250	-	151.027	151.027	89.364	56.165	56.165	62.600	-	-	-	-	0.339	91.092	43.024
1984	2044	72.499		2.607	4.554	45.063	63.927	-		6.853	9.435	-	132.599	132.599	89.596	37.395	37.395	62.600	-	-	-	-	0.339	91.092	49.751
1985	2045	58.416		2.659	4.604	45.965	65.205	-		6.990	9.623	-	119.718	119.718	89.834	24.164	24.164	62.600	-	-	-	-	0.339	91.092	36.758
1986	2046	90.852		2.712	4.654	46.884	66.509	-		7.130	9.816	-	153.380	153.380	90.075	57.470	57.470	62.600	-	-	-	-	0.339	91.092	70.305
1987	2047	155.951		2.767	4.704	47.821	67.840	-		7.272	10.012	-	219.730	219.730	90.322	123.457	123.457	62.600	-	-	-	-	0.339	91.092	136.539
1988	2048	191.152		2.822	4.754	48.778	69.196	-		7.418	10.213	-	256.206	256.206	90.574	159.562	159.562	62.600	-	-	-	-	0.339	91.092	172.896
1989	2049	49.138		2.878	4.804	49.753	70.580	-		7.566	10.417	-	115.494	115.494	90.831	18.471	18.471	62.600	-	-	-	-	0.339	91.092	32.061
1990	2050	198.775		2.936	4.854	50.749	71.992	-		7.717	10.625	-	266.458	266.458	91.092	169.050	169.050	62.600	-	-	-	-	0.339	91.092	182.902
1991	2051	582.616		2.995	4.904	51.764	73.432	-		7.872	10.838	-	651.652	651.652	91.360	553.850	553.850	62.600	-	-	-	-	0.339	91.092	567.970
1992	2052	176.791		3.055	4.954	52.799	74.900	-		8.029	11.054	-	247.208	247.208	91.632	149.005	149.005	62.600	-	-	-	-	0.339	91.092	163.397
1993	2053	89.187		3.116	5.004	53.855	76.398	-		8.190	11.275	-	161.012	161.012	91.909	62.401	62.401	62.600	-	-	-	-	0.339	91.092	77.070
1994	2054	56.254		3.																					

Cálculo del escurrimiento disponible en la subcuenca V9 Paso del Sabino, incluyendo los usos y almacenamientos de las subcuencas V6, V7 y V8

Demandas actuales (Mm³):		Futuros 2% incremento			Capacidad de almacenamiento (Mm³) Total:	
riego	pecuario	urbano	total	minima	maxima	
				0	23.9	

Año	Año proyectado	Salidas históricas (Mm³)				Entradas históricas (Mm³)			Δ V	Cp	Eskurrimiento (Mm³)								Δ V'	Usos actuales (Mm³)		Eskurrimiento disponible (Mm³)	
		Ab	Ex	Ev	Uc	Ar	Im	R			CP+Esc. disp. Ar'	Usos Proy V6+v7+v8+v9	menos usos actuales	excedente	almacenad o	deficit	derrames	Uc real=Uc total actual-deficit		R real			
1945	2005	144.396		1.894	24.735	124.848	59.011		4.514	-	107.501	124.848	62.769	60.185	60.185	23.900	-	-	-	-	62.769	11.454	71.639
1946	2006	136.419		1.929	25.152	59.773			4.590	-	99.138	129.100	62.880	64.290	64.290	23.900	-	64.290	-	-	62.880	11.476	75.766
1947	2007	140.645		1.965	25.577	61.376			4.668	-	102.143	132.150	62.992	67.192	67.192	23.900	-	67.192	-	-	62.992	11.497	78.690
1948	2008	223.098		2.002	26.011	58.943			4.748	-	187.421	217.472	63.107	152.363	152.363	23.900	-	152.363	-	-	63.107	11.520	163.883
1949	2009	111.167		2.039	26.454	58.831			4.829	-	76.000	100.906	63.224	35.643	35.643	23.900	-	35.643	-	-	63.224	11.542	47.185
1950	2010	145.457		2.078	26.905	60.483			4.912	-	109.044	139.188	63.343	73.768	73.768	23.900	-	73.768	-	-	63.343	11.565	85.332
1951	2011	144.904		2.117	27.365	60.421			4.997	-	108.968	137.321	63.465	71.740	71.740	23.900	-	71.740	-	-	63.465	11.588	83.328
1952	2012	134.942		2.156	27.835	59.627			5.083	-	100.223	123.016	63.589	57.270	57.270	23.900	-	57.270	-	-	63.589	11.612	68.882
1953	2013	141.313		2.197	28.314	61.223			5.171	-	105.430	135.720	63.715	69.808	69.808	23.900	-	69.808	-	-	63.715	11.636	81.444
1954	2014	126.625		2.238	28.802	60.550			5.261	-	91.855	113.190	63.845	47.107	47.107	23.900	-	47.107	-	-	63.845	11.661	58.767
1955	2015	259.882		2.280	29.300	60.852			5.352	-	225.258	255.650	63.976	189.394	189.394	23.900	-	189.394	-	-	63.976	11.686	201.080
1956	2016	139.945		2.323	29.809	57.137			5.445	-	109.945	136.508	64.110	70.074	70.074	23.900	-	70.074	-	-	64.110	11.711	81.786
1957	2017	84.948		2.367	30.327	58.090			5.540	-	54.012	70.502	64.247	3.887	3.887	23.900	-	3.887	-	-	64.247	11.737	15.625
1958	2018	446.994		2.412	30.856	61.155			5.638	-	413.469	444.022	64.387	377.223	377.223	23.900	-	377.223	-	-	64.387	11.764	388.987
1959	2019	121.918		2.458	31.395	58.131			5.737	-	91.903	121.677	64.530	54.689	54.689	23.900	-	54.689	-	-	64.530	11.791	66.480
1960	2020	107.272		2.504	31.945	6.530			5.838	-	129.354	131.130	64.674	63.952	63.952	23.900	-	63.952	-	-	64.674	11.818	75.770
1961	2021	62.454		2.552	32.506	4.380			5.941	-	87.192	89.802	64.823	22.428	22.428	23.900	-	22.428	-	-	64.823	11.847	34.274
1962	2022	115.380		2.600	33.078	9.662			6.046	-	135.351	145.013	64.974	77.439	77.439	23.900	-	77.439	-	-	64.974	11.875	89.314
1963	2023	115.200		2.650	33.662	60.057			6.153	-	85.303	115.810	65.129	48.032	48.032	23.900	-	48.032	-	-	65.129	11.904	59.936
1964	2024	91.761		2.700	34.258	62.464			6.262	-	59.993	90.041	65.287	22.054	22.054	23.900	-	22.054	-	-	65.287	11.934	33.988
1965	2025	188.407		2.751	34.865	32.573			6.374	-	187.077	216.771	65.447	148.572	148.572	23.900	-	148.572	-	-	65.447	11.964	160.537
1966	2026	179.213		2.804	35.485	47.069			6.487	-	163.945	194.978	65.610	126.564	126.564	23.900	-	126.564	-	-	65.610	11.995	138.559
1967	2027	521.148		2.857	36.116	119.050			6.603	-	434.468	525.835	65.777	457.201	457.201	23.900	-	457.201	-	-	65.777	12.026	469.227
1968	2028	133.528		2.912	36.761	20.349			6.722	-	146.130	166.479	65.949	97.618	97.618	23.900	-	97.618	-	-	65.949	12.059	109.677
1969	2029	57.397		2.968	37.418	3.965			6.842	-	86.976	90.941	66.122	21.851	21.851	23.900	-	21.851	-	-	66.122	12.091	33.942
1970	2030	210.490		3.024	38.089	48.117			6.966	-	196.521	227.824	66.299	158.501	158.501	23.900	-	158.501	-	-	66.299	12.125	170.625
1971	2031	392.054		3.082	38.773	94.115			7.091	-	332.703	426.818	66.479	357.257	357.257	23.900	-	357.257	-	-	66.479	12.158	369.415
1972	2032	67.332		3.141	39.471	55.813			7.219	-	46.912	75.077	66.664	5.272	5.272	23.900	-	5.272	-	-	66.664	12.193	17.465
1973	2033	567.498		3.202	40.182	98.406			7.350	-	505.126	570.142	66.852	500.089	500.089	23.900	-	500.089	-	-	66.852	12.228	512.317
1974	2034	67.371		3.263	40.908	56.972			7.483	-	47.087	69.323	67.045	(0.985)	-	22.915	-	-	0.985	67.045	12.264	12.264	
1975	2035	192.049		3.326	41.649	31.947			7.619	-	197.457	215.612	67.240	145.046	145.046	23.900	-	145.046	-	0.985	67.240	12.301	156.362
1976	2036	470.418		3.390	42.404	99.165			7.758	-	409.288	466.043	67.440	395.213	395.213	23.900	-	395.213	-	-	67.440	12.338	407.551
1977	2037	123.295		3.455	43.174	11.136			7.899	-	150.889	162.025	67.643	90.927	90.927	23.900	-	90.927	-	-	67.643	12.376	103.303
1978	2038	147.636		3.521	43.960	57.657			8.043	-	129.416	160.557	67.850	89.186	89.186	23.900	-	89.186	-	-	67.850	12.415	101.601
1979	2039	49.557		3.589	44.761	62.418			8.191	-	27.299	59.294	68.063	(12.358)	-	11.542	-	-	12.358	68.063	12.455	12.455	
1980	2040	68.215		3.658	45.578	61.367			8.341	-	47.744	79.824	68.279	7.886	7.886	19.428	-	7.886	-	-	68.279	12.495	12.495
1981	2041	51.947		3.729	46.412	65.757			8.494	-	27.837	60.003	68.499	(12.224)	-	7.203	-	-	12.224	68.499	12.536	12.536	
1982	2042	54.359		3.801	47.263	65.041			8.650	-	31.732	63.987	68.724	(8.538)	-	-	-	1.335	-	7.203	67.389	12.333	12.333
1983	2043	127.126		3.874	48.130	41.976			8.809	-	128.345	160.689	68.952	87.863	87.863	23.900	-	63.963	23.900	68.952	12.620	76.583	
1984	2044	124.291		3.949	49.015	30.353			8.972	-	137.931	167.018	69.188	93.881	93.881	23.900	-	93.881	-	-	69.188	12.664	106.545
1985	2045	77.109		4.026	49.917	38.674			9.137	-	83.241	108.866	69.424	35.416	35.416	23.900	-	35.416	-	-	69.424	12.708	48.124
1986	2046	167.521		4.104	50.838	45.543			9.306	-	167.613	197.122	69.669	123.349	123.349	23.900	-	123.349	-	-	69.669	12.754	136.103
1987	2047	53.409		4.183	51.777	26.526			9.479	-	73.364	90.573	69.916	16.474	16.474	23.900	-	16.474	-	-	69.916	12.799	29.274
1988	2048	154.089		4.264	52.735	54.971			9.655	-	146.462	178.377	70.170	103.943	103.943	23.900	-	103.943	-	-	70.170	12.847	116.790
1989	2049	51.498		4.347	53.712	34.809			9.834	-	64.913	78.337	70.428	3.562	3.562	23.900	-	3.562	-	-	70.428	12.895	16.457
1990	2050	151.943		4.431	54.708	79.311			10.017	-	121.755	154.781	70.692	79.658	79.658	23.900	-	79.658	-	-	70.692	12.944	92.601
1991	2051	504.443		4.517	55.724	324.048			10.204	-	230.433	521.105	70.960	445.627	445.627	23.900	-	445.627	-	-	70.960	12.993	458.621
1992	2052	258.449		4.605	56.761	85.083			10.394	-	224.338	294.084	71.234	218.246	218.246	23.900	-	218.246	-	-	71.234	13.044	231.290
1993	2053	59.949		4.694	57.819	40.787			10.588	-	71.087	98.026	71.513	21.818	21.818	23.900	-	21.818	-	-	71.513	13.096	34.914
1994	2054	50.636		4.786	58.897	40.932			10.786	-	62.601	73.609	71.799	(2.976)	-	20.924	-	-	2.976	71.799	13.149	13.149	
1995	2055	78.646		4.827	59.390	35.817			10.876	-	96.170	125.652	71.799	49.026	49.026	23.900	-	46.050	2.976	71.799	13.149	59.199	
1996	2056	49.559		4.869	59.884	39.015			10.967	-	64.330	73.464	71.799	(3.203)	-	20.697	-	-	3.203	71.799	13.149	13.149	
1997	2057	72.428		4.910	60.377	42.400			11.057	-	84.258	94.772	71.799	18.063	18.063	23.900	-	14.859	3.203	71.799	13.149	28.008	
1998	2058	158.029		4.951	60.871	39.913			11.147	-													

Cálculo del escurrimiento disponible en la subcuenca V11 El Salto

Demandas actuales (Mm³): Futuros 2% incremento 2.85

Capacidad de almacenamiento (Mm³):

riego	pecuario	urbano	total

mínima	máxima
0	7.6

Año	Salidas históricas (Mm³)				Entradas históricas (Mm³)			Δ V	Cp	Eskurrimiento (Mm³)						Δ V	Usos actuales (Mm³)		Eskurrimiento disponible (Mm³)
	Ab	Ex	Ev	Uc	Ar	Im	R			CP+Esc. disp. Ar	menos usos actuales	excedente	almacenado	deficit	derrames		Uc real	R real	
1945	62.307		3.603	0.697			0.394		66.212	66.212	59.755	59.755	7.600	-	-	-	2.855	1.615	61.370
1946	127.706		3.675	0.711			0.402		131.689	131.689	125.160	125.160	7.600	-	126.045	-	2.855	1.615	126.775
1947	126.874		3.748	0.725			0.410		130.937	130.937	124.334	124.334	7.600	-	125.219	-	2.855	1.615	125.950
1948	50.591		3.823	0.739			0.418		54.735	54.735	48.057	48.057	7.600	-	48.942	-	2.855	1.615	49.672
1949	64.441		3.899	0.754			0.427		68.668	68.668	61.913	61.913	7.600	-	62.798	-	2.855	1.615	63.529
1950	46.794		3.977	0.769			0.435		51.105	51.105	44.273	44.273	7.600	-	45.158	-	2.855	1.615	45.888
1951	72.740		4.057	0.785			0.444		77.138	77.138	70.226	70.226	7.600	-	71.111	-	2.855	1.615	71.841
1952	73.436		4.138	0.800			0.453		77.922	77.922	70.928	70.928	7.600	-	71.813	-	2.855	1.615	72.544
1953	32.448		4.221	0.816			0.462		37.023	37.023	29.948	29.948	7.600	-	30.833	-	2.855	1.615	31.563
1954	17.287		4.305	0.833			0.471		21.954	21.954	14.794	14.794	7.600	-	15.679	-	2.855	1.615	16.409
1955	116.290		4.391	0.849			0.481		121.050	121.050	113.804	113.804	7.600	-	114.688	-	2.855	1.615	115.419
1956	113.601		4.479	0.866			0.490		118.456	118.456	111.122	111.122	7.600	-	112.007	-	2.855	1.615	112.738
1957	3.199		4.569	0.884			0.500		8.151	8.151	0.727	0.727	7.600	-	1.612	-	2.855	1.615	2.343
1958	263.050		4.660	0.901			0.510		268.101	268.101	260.586	260.586	7.600	-	261.471	-	2.855	1.615	262.201
1959	93.884		4.753	0.919			0.520		99.036	99.036	91.428	91.428	7.600	-	92.313	-	2.855	1.615	93.043
1960	47.913		4.849	0.938			0.531		53.168	53.168	45.465	45.465	7.600	-	46.350	-	2.855	1.615	47.080
1961	104.734		4.945	0.956			0.541		110.095	110.095	102.294	102.294	7.600	-	103.179	-	2.855	1.615	103.910
1962	47.951		5.044	0.976			0.552		53.419	53.419	45.519	45.519	7.600	-	46.404	-	2.855	1.615	47.135
1963	219.899		5.145	0.995			0.563		225.477	225.477	217.476	217.476	7.600	-	218.361	-	2.855	1.615	219.092
1964	46.947		5.248	1.015			0.574		52.636	52.636	44.533	44.533	7.600	-	45.418	-	2.855	1.615	46.148
1965	214.039		5.353	1.035			0.586		219.842	219.842	211.634	211.634	7.600	-	212.519	-	2.855	1.615	213.249
1966	57.720		5.460	1.056			0.597		63.639	63.639	55.323	55.323	7.600	-	56.208	-	2.855	1.615	56.939
1967	199.005		5.569	1.077			0.609		205.042	205.042	196.618	196.618	7.600	-	197.503	-	2.855	1.615	198.233
1968	135.960		5.681	1.099			0.622		142.118	142.118	133.582	133.582	7.600	-	134.467	-	2.855	1.615	135.198
1969	11.404		5.794	1.121			0.634		17.685	17.685	9.035	9.035	7.600	-	9.920	-	2.855	1.615	10.651
1970	147.008		5.910	1.143			0.647		153.414	153.414	144.649	144.649	7.600	-	145.534	-	2.855	1.615	146.264
1971	177.172		6.029	1.166			0.660		183.707	183.707	174.823	174.823	7.600	-	175.708	-	2.855	1.615	176.439
1972	24.690		6.149	1.189			0.673		31.355	31.355	22.351	22.351	7.600	-	23.236	-	2.855	1.615	23.966
1973	260.167		6.272	1.213			0.686		266.966	266.966	257.839	257.839	7.600	-	258.724	-	2.855	1.615	259.455
1974	32.835		6.398	1.237			0.700		39.770	39.770	30.517	30.517	7.600	-	31.402	-	2.855	1.615	32.133
1975	157.746		6.525	1.262			0.714		164.819	164.819	155.439	155.439	7.600	-	156.324	-	2.855	1.615	157.054
1976	245.891		6.656	1.287			0.728		253.106	253.106	243.595	243.595	7.600	-	244.480	-	2.855	1.615	245.210
1977	121.193		6.789	1.313			0.743		128.552	128.552	118.908	118.908	7.600	-	119.793	-	2.855	1.615	120.524
1978	158.858		6.925	1.339			0.758		166.364	166.364	156.584	156.584	7.600	-	157.469	-	2.855	1.615	158.200
1979	56.467		7.063	1.366			0.773		64.123	64.123	54.205	54.205	7.600	-	55.090	-	2.855	1.615	55.820
1980	87.429		7.205	1.393			0.788		95.238	95.238	85.179	85.179	7.600	-	86.064	-	2.855	1.615	86.794
1981	75.830		7.349	1.421			0.804		83.796	83.796	73.592	73.592	7.600	-	74.477	-	2.855	1.615	75.207
1982	11.131		7.496	1.450			0.820		19.256	19.256	8.905	8.905	7.600	-	9.790	-	2.855	1.615	10.520
1983	188.223		7.646	1.479			0.837		196.511	196.511	186.010	186.010	7.600	-	186.895	-	2.855	1.615	187.626
1984	204.661		7.799	1.508			0.853		213.114	213.114	202.460	202.460	7.600	-	203.345	-	2.855	1.615	204.076
1985	80.659		7.955	1.538			0.870		89.282	89.282	78.472	78.472	7.600	-	79.357	-	2.855	1.615	80.088
1986	151.870		8.114	1.569			0.888		160.664	160.664	149.696	149.696	7.600	-	150.581	-	2.855	1.615	151.311
1987	36.923		8.276	1.600			0.906		45.894	45.894	34.763	34.763	7.600	-	35.648	-	2.855	1.615	36.379
1988	134.468		8.441	1.632			0.924		143.618	143.618	132.321	132.321	7.600	-	133.206	-	2.855	1.615	133.937
1989	139.287		8.610	1.665			0.942		148.620	148.620	137.155	137.155	7.600	-	138.040	-	2.855	1.615	138.770
1990	140.926		8.782	1.698			0.961		150.446	150.446	138.809	138.809	7.600	-	139.694	-	2.855	1.615	140.424
1991	142.566		8.958	1.732			0.980		152.276	152.276	140.463	140.463	7.600	-	141.348	-	2.855	1.615	142.078
1992	144.205		9.137	1.767			1.000		154.110	154.110	142.118	142.118	7.600	-	143.002	-	2.855	1.615	143.733
1993	145.845		9.320	1.802			1.020		155.947	155.947	143.772	143.772	7.600	-	144.657	-	2.855	1.615	145.388
1994	139.250		9.506	1.838			1.040		149.555	149.555	137.193	137.193	7.600	-	138.078	-	2.855	1.615	138.809
1995	78.350		9.604	1.857			1.051		88.760	88.760	76.302	76.302	7.600	-	77.187	-	2.855	1.615	77.917
1996	150.767		9.701	1.876			1.062		161.282	161.282	148.727	148.727	7.600	-	149.612	-	2.855	1.615	150.342
1997	152.455		9.798	1.895			1.072		163.075	163.075	150.422	150.422	7.600	-	151.307	-	2.855	1.615	152.038
1998	154.142		9.895	1.914			1.083		164.868	164.868	152.118	152.118	7.600	-	153.003	-	2.855	1.615	153.734
1999	155.830		9.992	1.932			1.093		166.661	166.661	153.814	153.814	7.600	-	154.699	-	2.855	1.615	155.429
2000	109.450		10.089	1.951			1.104		120.387	120.387	107.442	107.442	7.600	-	108.327	-	2.855	1.615	109.058
2001	-		10.187	1.970			1.115		11.042	11.042	(2.000)	-	7.600	-	-	-	2.855	1.615	0.384
2002	75.000		10.187	1.99			1.126		86.051	86.051	73.009	73.009	7.600	-	73.009	-	2.855	1.615	74.624
2003	120.000		10.187	2.01			1.137		131.059	131.059	118.018	118.018	7.600	-	118.018	-	2.855	1.615	119.633
2004	145.000		10.187	2.03			1.149		156.068	156.068	143.026	143.026	7.600	-	143.026	-	2.855	1.615	144.642

Cálculo del escurrimiento disponible en la subcuenca V12 La Caña incluye las cuencas V10 y V11

Demandas actuales (Mm³): Futuros 2% incremento

Capacidad de almacenamiento (Mm³):

riego		pecuario	urbano	total

mínima	máxima
0	113.1

$$\text{Esc disp} = \text{Cp} + \text{Ar disp} + \text{R} + \text{Im} - (\text{Uc} + \text{Ev} + \text{Ex} + \text{DV})$$

		Sabino+Gaspar												Escorrentamiento (Mm³)										Usos actuales (Mm³)		Escurremient
Año	Año proyec tado	Salidas históricas (Mm³)				Entradas históricas (Mm³)				D V	Cp	CP+Esc. disp. Ar		Usos proy V10+V11+V12	menos usos actuales				D V'	Uc real-Uc deficit	R real	o disponible (Mm³) Con Sabino				
		Ab	Est Caña	Ex	Ev Tot	Ev	Uc tot	Uc	Ar			Im	R tot		R	excedente	almacenado Total	deficit					derrames			
1945	2005	473.591			3.956	0.242	6.333	4.149	210.795	1.826	1.024	271.258	357.229	18.309	334.964	334.964	113.100	-	-	-	18.309	5.280	340.244			
1946	2006	454.634			4.035	0.246	6.460	4.232	198.932	1.863	1.045	264.334	351.049	18.426	328.587	328.587	113.100	-	328.587	-	18.426	5.314	333.901			
1947	2007	565.194			4.116	0.251	6.589	4.316	268.119	1.900	1.066	305.880	460.993	18.546	438.331	438.331	113.100	-	438.331	-	18.546	5.349	443.680			
1948	2008	757.539			4.198	0.256	6.721	4.403	384.436	1.938	1.087	382.083	656.777	18.669	633.910	633.910	113.100	-	633.910	-	18.669	5.384	639.294			
1949	2009	388.014			4.282	0.261	6.855	4.491	175.586	1.977	1.109	221.578	283.200	18.794	260.123	260.123	113.100	-	260.123	-	18.794	5.420	265.543			
1950	2010	413.237			4.368	0.267	6.992	4.580	212.307	2.017	1.131	210.274	323.973	18.921	300.684	300.684	113.100	-	300.684	-	18.921	5.457	306.140			
1951	2011	437.859			4.455	0.272	7.132	4.672	208.641	2.057	1.154	238.549	328.545	19.051	305.039	305.039	113.100	-	305.039	-	19.051	5.494	310.533			
1952	2012	548.992			4.544	0.277	7.275	4.766	233.990	2.098	1.177	324.724	450.362	19.183	426.635	426.635	113.100	-	426.635	-	19.183	5.532	432.167			
1953	2013	518.856			4.635	0.283	7.420	4.861	263.845	2.140	1.200	264.726	434.441	19.319	410.487	410.487	113.100	-	410.487	-	19.319	5.571	416.058			
1954	2014	302.673			4.728	0.289	7.569	4.958	177.709	2.183	1.224	136.078	200.891	19.458	176.705	176.705	113.100	-	176.705	-	19.458	5.612	182.317			
1955	2015	973.118			4.822	0.294	7.720	5.057	490.844	2.226	1.249	492.590	878.593	19.598	854.173	854.173	113.100	-	854.173	-	19.598	5.652	859.825			
1956	2016	492.605			4.919	0.300	7.875	5.158	228.900	2.271	1.274	274.228	397.062	19.741	372.402	372.402	113.100	-	372.402	-	19.741	5.693	378.095			
1957	2017	171.576			5.017	0.306	8.032	5.262	115.034	2.316	1.299	67.275	90.347	19.887	65.442	65.442	113.100	-	65.442	-	19.887	5.735	71.178			
1958	2018	1,570.235			5.118	0.312	8.193	5.367	946.547	2.363	1.325	634.636	1,462.143	20.037	1,436.988	1,436.988	113.100	-	1,436.988	-	20.037	5.778	1,442.767			
1959	2019	527.715			5.220	0.319	8.357	5.474	245.371	2.410	1.352	293.510	435.933	20.189	410.524	410.524	113.100	-	410.524	-	20.189	5.822	416.346			
1960	2020	325.349			5.324	0.325	8.524	5.584	184.982	2.458	1.379	184.982	268.624	20.345	242.954	242.954	113.100	-	242.954	-	20.345	5.867	248.822			
1961	2021	358.296			5.431	0.332	8.694	5.695	103.481	2.507	1.406	266.432	308.725	20.504	282.791	282.791	113.100	-	282.791	-	20.504	5.913	288.704			
1962	2022	437.504			5.540	0.338	8.868	5.809	206.324	2.557	1.434	243.030	346.896	20.665	320.691	320.691	113.100	-	320.691	-	20.665	5.960	326.651			
1963	2023	922.081			5.650	0.345	9.045	5.925	246.665	2.609	1.463	687.503	837.451	20.831	810.970	810.970	113.100	-	810.970	-	20.831	6.007	816.977			
1964	2024	410.200			5.763	0.352	9.226	6.044	236.809	2.661	1.492	236.809	343.310	20.999	316.548	316.548	113.100	-	316.548	-	20.999	6.056	322.604			
1965	2025	1,241.029			5.879	0.359	9.411	6.165	589.847	2.714	1.522	663.757	1,186.144	21.170	1,159.096	1,159.096	113.100	-	1,159.096	-	21.170	6.105	1,165.201			
1966	2026	602.290			5.996	0.366	9.599	6.288	341.103	2.768	1.553	274.014	534.128	21.345	506.787	506.787	113.100	-	506.787	-	21.345	6.156	512.943			
1967	2027	1,891.293			6.116	0.373	9.791	6.414	839.629	2.824	1.584	972.715	1,824.948	21.523	1,796.408	1,796.408	113.100	-	1,796.408	-	21.523	6.207	1,802.919			
1968	2028	593.079			6.238	0.381	9.987	6.542	215.942	2.880	1.615	390.482	540.321	21.706	512.376	512.376	113.100	-	512.376	-	21.706	6.260	518.636			
1969	2029	195.763			6.363	0.389	10.187	6.673	82.339	2.938	1.648	127.936	170.288	21.891	142.034	142.034	113.100	-	142.034	-	21.891	6.313	148.347			
1970	2030	872.967			6.490	0.396	10.390	6.806	403.277	2.997	1.681	483.574	787.740	22.080	759.170	759.170	113.100	-	759.170	-	22.080	6.368	765.537			
1971	2031	1,366.076			6.620	0.404	10.598	6.942	910.139	3.056	1.714	470.099	1,328.152	22.273	1,299.259	1,299.259	113.100	-	1,299.259	-	22.273	6.423	1,305.682			
1972	2032	274.666			6.753	0.412	10.810	7.081	116.103	3.118	1.749	173.008	205.330	22.471	176.107	176.107	113.100	-	176.107	-	22.471	6.480	182.587			
1973	2033	1,969.912			6.888	0.421	11.026	7.223	1,043.840	3.180	1.783	940.806	1,896.167	22.672	1,866.607	1,866.607	113.100	-	1,866.607	-	22.672	6.538	1,873.146			
1974	2034	364.506			7.025	0.429	11.247	7.367	140.708	3.244	1.819	238.827	285.355	22.877	255.452	255.452	113.100	-	255.452	-	22.877	6.598	262.050			
1975	2035	864.459			7.166	0.438	11.472	7.515	401.732	3.308	1.856	478.056	816.791	23.086	786.539	786.539	113.100	-	786.539	-	23.086	6.658	793.196			
1976	2036	1,448.454			7.309	0.446	11.701	7.665	1,023.239	3.375	1.893	440.851	1,375.311	23.300	1,344.701	1,344.701	113.100	-	1,344.701	-	23.300	6.720	1,351.421			
1977	2037	570.023			7.455	0.455	11.935	7.818	231.512	3.442	1.931	354.460	533.038	23.518	502.065	502.065	113.100	-	502.065	-	23.518	6.782	508.847			
1978	2038	462.136			7.605	0.464	12.174	7.975	234.448	3.511	1.969	243.956	404.260	23.739	372.916	372.916	113.100	-	372.916	-	23.739	6.846	379.762			
1979	2039	216.733			7.757	0.474	12.418	8.134	84.928	3.581	2.008	148.398	172.092	23.966	140.369	140.369	113.100	-	140.369	-	23.966	6.912	147.280			
1980	2040	285.571			7.912	0.483	12.666	8.297	224.167	3.653	2.049	78.329	198.186	24.197	166.077	166.077	113.100	-	166.077	-	24.197	6.978	173.055			
1981	2041	270.888			8.070	0.493	12.919	8.463	88.707	3.726	2.090	199.444	223.653	24.432	191.151	191.151	113.100	-	191.151	-	24.432	7.046	198.197			
1982	2042	143.917			8.231	0.503	13.178	8.632	66.659	3.800	2.131	94.866	119.096	24.672	86.192	86.192	113.100	-	86.192	-	24.672	7.115	93.307			
1983	2043	392.270			8.396	0.513	13.441	8.805	219.231	3.876	2.174	191.000	310.608	24.918	277.293	277.293	113.100	-	277.293	-	24.918	7.186	284.480			
1984	2044	403.770			8.564	0.523	13.710	8.981	196.790	3.954	2.218	225.300	381.595	25.167	347.864	347.864	113.100	-	347.864	-	25.167	7.258	355.122			
1985	2045	217.050			8.735	0.533	13.984	9.160	135.525	4.033	2.262	100.211	185.094	25.422	150.936	150.936	113.100	-	150.936	-	25.422	7.331	158.268			
1986	2046	814.882			8.910	0.544	14.264	9.344	258.373	4.114	2.307	575.369	781.777	25.682	747.185	747.185	113.100	-	747.185	-	25.682	7.406	754.592			
1987	2047	1,251.971			9.088	0.555	14.549	9.531	209.360	4.196	2.353	62.052	227.864	25.948	192.828	192.828	113.100	-	192.828	-	25.948	7.483	200.311			
1988	2048	704.370			9.270	0.566	14.840	9.721	345.241	4.280	2.400	378.959	668.645	26.218	633.157	633.157	113.100	-	633.157	-	26.218	7.561	640.718			
1989	2049	226.291			9.455	0.577	15.137	9.916	100.636	4.365	2.448	145.882	194.400	26.493	158.452	158.452	113.100	-	158.452	-	26.493	7.640	166.092			
1990	2050	806.182			9.644	0.589	15.440	10.114	350.718	4.453	2.497	476.095	751.598	26.775	715.178	715.178	113.100	-	715.178	-	26.775	7.722	722.900			
1991	2051	1,723.019			9.837	0.601	15.748	10.316	1,087.059	4.542	2.547	657.004	1,683.595	27.062	1,646.696	1,646.696	113.100	-	1,646.696	-	27.062	7.804	1,654.500			
1992	2052	946.124			10.034	0.																				

FACTORES MENSUALES DE DISTRIBUCIÓN DEL ESCURRIMIENTO EN LA Cuña

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Suma
1945	0.020	0.012	0.010	0.007	0.006	0.138	0.029	0.335	0.403	0.023	0.012	0.009	1.0
1946	0.020	0.012	0.010	0.007	0.006	0.138	0.029	0.335	0.403	0.023	0.012	0.009	1.0
1947	0.020	0.012	0.010	0.007	0.006	0.138	0.029	0.335	0.403	0.023	0.012	0.009	1.0
1948	0.014	0.006	0.005	0.004	0.005	0.163	0.447	0.211	0.109	0.018	0.009	0.007	1.0
1949	0.013	0.010	0.008	0.007	0.006	0.150	0.474	0.214	0.071	0.027	0.010	0.010	1.0
1950	0.009	0.007	0.008	0.006	0.005	0.172	0.438	0.133	0.172	0.028	0.014	0.009	1.0
1951	0.010	0.008	0.008	0.006	0.006	0.159	0.425	0.179	0.150	0.025	0.018	0.008	1.0
1952	0.007	0.007	0.006	0.005	0.004	0.127	0.245	0.292	0.182	0.095	0.020	0.010	1.0
1953	0.009	0.008	0.007	0.005	0.004	0.076	0.154	0.344	0.309	0.033	0.030	0.022	1.0
1954	0.020	0.012	0.010	0.008	0.008	0.173	0.295	0.257	0.073	0.099	0.028	0.016	1.0
1955	0.005	0.004	0.003	0.002	0.002	0.014	0.146	0.461	0.210	0.134	0.012	0.008	1.0
1956	0.013	0.010	0.008	0.006	0.039	0.117	0.403	0.285	0.086	0.012	0.011	0.011	1.0
1957	0.027	0.023	0.020	0.015	0.014	0.067	0.114	0.175	0.352	0.120	0.044	0.029	1.0
1958	0.004	0.002	0.002	0.001	0.001	0.043	0.256	0.126	0.230	0.153	0.167	0.014	1.0
1959	0.027	0.014	0.010	0.015	0.007	0.088	0.234	0.360	0.130	0.074	0.026	0.013	1.0
1960	0.019	0.014	0.012	0.009	0.006	0.013	0.176	0.469	0.234	0.021	0.013	0.014	1.0
1961	0.013	0.010	0.010	0.007	0.006	0.081	0.602	0.153	0.068	0.021	0.015	0.015	1.0
1962	0.010	0.009	0.008	0.008	0.005	0.122	0.291	0.069	0.312	0.130	0.021	0.017	1.0
1963	0.006	0.004	0.004	0.002	0.002	0.072	0.455	0.296	0.116	0.022	0.007	0.014	1.0
1964	0.021	0.009	0.006	0.004	0.005	0.082	0.168	0.217	0.337	0.115	0.024	0.013	1.0
1965	0.006	0.004	0.002	0.002	0.004	0.011	0.048	0.503	0.235	0.167	0.010	0.007	1.0
1966	0.012	0.013	0.009	0.012	0.007	0.071	0.110	0.412	0.253	0.076	0.014	0.012	1.0
1967	0.010	0.003	0.002	0.001	0.003	0.033	0.066	0.244	0.540	0.078	0.013	0.007	1.0
1968	0.016	0.014	0.027	0.009	0.008	0.025	0.301	0.223	0.326	0.029	0.012	0.012	1.0
1969	0.036	0.026	0.017	0.014	0.012	0.030	0.354	0.128	0.268	0.067	0.023	0.024	1.0
1970	0.007	0.006	0.005	0.003	0.002	0.114	0.195	0.174	0.365	0.109	0.010	0.011	1.0
1971	0.006	0.004	0.004	0.003	0.003	0.082	0.112	0.388	0.273	0.111	0.008	0.008	1.0
1972	0.030	0.022	0.019	0.012	0.018	0.152	0.207	0.257	0.203	0.037	0.023	0.020	1.0
1973	0.003	0.003	0.002	0.002	0.001	0.009	0.257	0.599	0.077	0.033	0.009	0.005	1.0
1974	0.023	0.017	0.016	0.011	0.009	0.014	0.316	0.320	0.213	0.029	0.015	0.016	1.0
1975	0.008	0.006	0.005	0.003	0.002	0.037	0.300	0.515	0.101	0.009	0.006	0.007	1.0
1976	0.004	0.003	0.003	0.002	0.001	0.003	0.599	0.093	0.071	0.177	0.029	0.014	1.0
1977	0.015	0.009	0.008	0.006	0.004	0.107	0.177	0.110	0.515	0.024	0.013	0.012	1.0
1978	0.013	0.011	0.009	0.006	0.004	0.027	0.080	0.167	0.320	0.326	0.022	0.016	1.0
1979	0.027	0.024	0.020	0.014	0.008	0.016	0.080	0.450	0.286	0.024	0.022	0.028	1.0
1980	0.022	0.018	0.012	0.007	0.005	0.013	0.145	0.481	0.211	0.035	0.034	0.018	1.0
1981	0.023	0.016	0.013	0.010	0.005	0.122	0.318	0.205	0.216	0.035	0.020	0.017	1.0
1982	0.031	0.026	0.025	0.012	0.010	0.008	0.410	0.241	0.082	0.082	0.030	0.044	1.0
1983	0.008	0.005	0.005	0.002	0.002	0.018	0.341	0.317	0.261	0.021	0.011	0.007	1.0
1984	0.009	0.009	0.006	0.004	0.003	0.070	0.408	0.302	0.154	0.017	0.009	0.009	1.0
1985	0.013	0.010	0.008	0.005	0.004	0.138	0.356	0.335	0.069	0.036	0.013	0.012	1.0
1986	0.006	0.005	0.004	0.002	0.002	0.180	0.415	0.075	0.154	0.129	0.015	0.012	1.0
1987	0.022	0.015	0.018	0.009	0.008	0.021	0.329	0.360	0.137	0.046	0.015	0.019	1.0
1988	0.004	0.003	0.003	0.002	0.001	0.007	0.328	0.512	0.112	0.017	0.006	0.006	1.0
1989	0.018	0.017	0.017	0.009	0.005	0.028	0.124	0.410	0.299	0.030	0.016	0.028	1.0
1990	0.006	0.005	0.004	0.002	0.001	0.020	0.102	0.530	0.211	0.088	0.024	0.007	1.0
1991	0.003	0.003	0.002	0.001	0.001	0.001	0.759	0.089	0.110	0.020	0.006	0.005	1.0
1992	0.335	0.089	0.013	0.006	0.004	0.021	0.052	0.135	0.077	0.233	0.024	0.012	1.0
1993	0.023	0.020	0.013	0.010	0.007	0.039	0.530	0.079	0.202	0.038	0.021	0.019	1.0
1994	0.029	0.023	0.016	0.010	0.007	0.170	0.096	0.164	0.364	0.071	0.026	0.024	1.0
1995	0.014	0.013	0.010	0.006	0.004	0.012	0.135	0.377	0.376	0.032	0.010	0.010	1.0
1996	0.013	0.012	0.011	0.008	0.008	0.027	0.044	0.096	0.182	0.197	0.390	0.012	1.0
1997	0.032	0.028	0.024	0.028	0.019	0.136	0.305	0.134	0.161	0.076	0.027	0.029	1.0
1998	0.014	0.010	0.009	0.007	0.006	0.010	0.064	0.166	0.335	0.339	0.032	0.010	1.0
1999	0.011	0.010	0.011	0.009	0.005	0.027	0.287	0.276	0.304	0.032	0.015	0.014	1.0
2000	0.029	0.026	0.024	0.016	0.009	0.290	0.198	0.158	0.099	0.076	0.046	0.029	1.0
2001	0.010	0.009	0.010	0.004	0.004	0.074	0.271	0.205	0.323	0.053	0.020	0.017	1.0
2002	0.007	0.006	0.007	0.002	0.002	0.024	0.224	0.362	0.229	0.073	0.056	0.008	1.0
2003	0.004	0.004	0.004	0.002	0.001	0.019	0.163	0.189	0.481	0.102	0.023	0.007	1.0
2004	0.004	0.004	0.004	0.003	0.003	0.055	0.070	0.106	0.552	0.163	0.025	0.011	1.0
Minimo	0.003	0.002	0.002	0.001	0.001	0.001	0.029	0.069	0.068	0.009	0.006	0.005	
Máximo	0.335	0.089	0.027	0.028	0.039	0.290	0.759	0.599	0.552	0.339	0.390	0.044	
Media	0.020	0.012	0.010	0.007	0.006	0.071	0.259	0.267	0.229	0.077	0.028	0.014	

Usos constantes despues de 20 VOLUMEN DISPONIBLE EN ZAPOTILLO CON LOS FACTORES DE La Cuña

Año	ene	feb	mar	abr	may	jun	jul	ago	sep	oct	nov	dic	Suma
2005	4.842	3.028	2.375	1.646	1.432	33.727	6.944	81.493	98.149	5.524	3.005	2.077	244.24
2006	4.769	2.983	2.340	1.621	1.410	33.222	6.840	80.272	96.679	5.441	2.960	2.046	240.58
2007	6.638	4.152	3.257	2.257	1.963	46.243	9.521	111.733	134.571	7.574	4.120	2.848	334.88
2008	7.183	2.908	2.415	2.123	2.733	81.592	223.956	105.863	54.741	9.142	4.530	3.559	500.75
2009	2.433	1.938	1.573	1.275	1.123	28.251	89.167	40.191	13.341	5.043	1.829	1.889	188.05
2010	2.147	1.744	1.816	1.360	1.218	40.022	102.044	30.874	40.024	6.500	3.179	2.086	233.01
2011	2.158	1.725	1.752	1.438	1.324	36.069	96.287	40.530	33.920	5.638	4.005	1.884	226.73
2012	2.257	2.070	1.792	1.635	1.158	40.234	77.439	92.218	57.511	29.905	6.416	3.053	315.69
2013	3.043	2.445	2.175	1.524	1.177	24.546	49.514	110.892	99.794	10.649	9.726	6.962	322.45
2014	2.723	1.667	1.366	1.140	1.139	23.854	40.668	35.542	10.109	13.644	3.931	2.262	138.05
2015	3.242	2.650	2.291	1.449	1.246	9.488	99.124	313.188	142.416	90.755	8.455	5.469	679.77
2016	3.553	2.740	2.208	1.803	10.908	32.854	113.397	80.132	24.167	3.303	3.055	2.976	281.10
2017	1.430	1.231	1.055	0.814	0.716	3.527	6.048	9.251	18.598	6.355	2.318	1.555	52.90
2018	4.851	2.982	2.288	1.249	1.142	52.268	309.131	152.456	278.515	184.751	201.985	17.350	1208.97
2019	8.436	4.426	3.171	4.650	2.324	27.613	73.188	112.413	40.690	23.257	7.998	4.089	312.26
2020	3.552	2.581	2.228	1.692	1.131	2.382	32.660	87.268	43.452	3.968	2.488	2.651	186.05
2021	2.629	1.997	1.860	1.366	1.217	15.755	117.393	29.752	13.213	4.010	2.953	2.923	195.07
2022	2.337	2.211	1.892	1.846	1.163	29.444	70.410	16.603	75.481	31.507	4.970	4.129	241.99
2023	3.550	2.290	2.075	1.369	1.049	40.421	256.171	167.013	65.514	12.139	4.195	7.719	563.51
2024	5.045	2.129	1.550	0.956	1.252	19.609	40.371	52.072	80.951	27.622	5.734	3.196	240.49
2025	5.491	4.024	2.226	1.911	3.569	9.701	44.354	463.558	216.239	154.186	8.872	6.800	920.93
2026	5.002	5.246	3.651	5.030	2.748	29.490	45.899	171.676	105.416	31.602	5.997	5.111	416.87
2027	13.691	4.432	3.496	1.936	3.714	47.897	94.484	351.642	778.901	112.612	18.850	9.473	1441.13
2028	5.984	5.338	10.094	3.310	2.896	9.437	113.805	84.280	123.219	10.912	4.527	4.692	378.49
2029	3.908	2.840	1.881	1.509	1.262	3.261	38.383	13.857	29.101	7.227	2.540	2.643	108.41
2030	3.889	3.429	2.884	1.841	1.218	67.025	114.941	102.825	215.196	64.241	6.075	6.653	590.22
2031	6.654	4.813	4.460	3.049	3.331	92.609	126.876	440.504	309.968	125.652	9.103	8.565	1135.58
2032	3.773	2.800	2.333	1.519	2.313	19.030	26.035	32.187	25.471	4.640	2.829	2.555	125.49
2033	5.105	4.320	3.181	2.575	1.808	13.299	391.471	913.532	117.908	49.809	14.096	7.284	1524.39
2034	4.152	3.102	2.792	1.993	1.630	2.602	56.931	57.636	38.443	5.252	2.779	2.839	180.15
2035	5.018	3.445	3.324	1.998	1.382	23.096	186.370	319.321	62.663	5.462	3.840	4.582	620.50
2036	4.916	4.034	3.348	2.350	1.565	3.710	714.067	111.506	84.788	211.449	34.727	16.515	1192.98
2037	5.626	3.419	3.088	2.224	1.490	40.915	68.033	42.180	197.538	9.281	4.968	4.583	383.34
2038	3.744	3.264	2.813	1.698	1.165	7.881	23.827	49.427	94.831	96.474	6.499	4.747	296.37
2039	2.719	2.446	2.046	1.362	0.829	1.581	8.020	45.124	28.724	2.453	2.170	2.844	100.32
2040	3.351	2.800	1.773	1.069	0.782	1.919	22.212	73.472	32.175	5.274	5.225	2.787	152.84
2041	3.008	2.103	1.706	1.338	0.641	16.092	42.025	27.139	28.501	4.634	2.665	2.229	132.08
2042	2.105	1.763	1.653	0.795	0.643	0.538	27.487	16.165	5.481	5.488	2.022	2.918	67.06
2043	1.764	1.127	1.009	0.551	0.428	4.064	75.667	70.351	57.995	4.748	2.463	1.663	221.83
2044	2.525	2.417	1.817	1.085	0.780	19.459	114.173	84.372	43.018	4.766	2.635	2.522	279.57
2045	1.758	1.260	1.054	0.682	0.482	17.971	46.401	43.735	9.033	4.713	1.671	1.622	130.38
2046	3.146	2.689	2.414	1.154	0.969	98.341	226.655	41.090	84.395	70.469	8.161	6.800	546.28
2047	4.176	2.858	3.315	1.660	1.477	3.994	61.633	67.441	25.593	8.527	2.887	3.640	187.20
2048	1.987	1.435	1.534	0.875	0.441	3.331	166.360	259.986	56.850	8.596	3.119	2.810	507.33
2049	2.232	2.013	2.024	1.055	0.575	3.376	14.995	49.794	36.351	3.615	1.972	3.411	121.41
2050	3.111	2.660	2.092	1.026	0.801	11.077	56.494	292.879	116.809	48.844	13.500	3.596	552.89
2051	4.051	3.967	3.173	1.916	1.155	2.030	1075.097	126.362	155.046	27.889	8.136	7.073	1415.89
2052	236.464	63.063	8.872	4.116	3.037	15.099	36.752	95.378	54.242	164.349	16.905	8.175	706.45
2053	5.062	4.271	2.740	2.060	1.426	8.415	114.727	17.066	43.809	8.144	4.555	4.192	216.47
2054	3.940	3.194	2.255	1.315	0.936	23.538	13.270	22.688	50.251	9.760	3.560	3.364	138.07
2055	4.240	4.073	3.091	1.814	1.273	3.650	41.600	115.872	115.629	9.878	3.161	3.228	307.51
2056	2.697	2.452	2.311	1.592	1.600	5.703	9.058	19.970	37.806	40.844	80.947	2.427	207.41
2057	1.897	1.638	1.438	1.646	1.146	7.980	17.936	7.907	9.460	4.478	1.599	1.684	58.81
2058	4.370	3.049	2.871	2.121	1.820	3.102	20.185	52.631	105.886	107.158	10.056	3.061	316.31
2059	2.042	1.844	2.051	1.582	0.818	4.817	51.781	49.851	54.817	5.784	2.635	2.445	180.47
2060	2.401	2.170	2.027	1.290	0.785	24.102	16.463	13.094	8.255	6.291	3.851	2.399	83.13
2061	2.503	2.259	2.498	0.961	0.985	17.852	65.332	49.457	77.966	12.825	4.812	4.006	241.46
2062	2.961	2.677	2.903	1.023	0.874	10.281	97.227	156.703	99.285	31.411	24.423	3.361	433.13
2063	3.900	3.530	3.726	1.982	1.306	17.215	146.284	169.789	431.965	92.095	20.493	6.588	898.87
2064	3.429	3.207	3.382	2.978	2.381	46.764	59.659	90.960	472.202	139.647	21.569	9.135	855.31
Minimo	1.430	1.127	1.009	0.551	0.428	0.538	6.048	7.907	5.481	2.453	1.599	1.555	52.897
Máximo	236.464	63.063	10.094	5.030	10.908	98.341	1075.097	913.532	778.901	211.449	201.985	17.350	1524.388
Media	7.76	3.86	2.61	1.75	1.59	22.72	108.22	116.05	101.05	36.80	11.15	4.43	417.997

Disponibles (Mm3)							
Año	Año proyectado	Cuña	Paso del Sabino	San Gaspar	Disponibles cuenca propia (Sabino+San Gaspar)=Vcp	Cuña-Cuenca propia Zapotillo	Disponibles hasta Zapotillo=VSG+VPS+Vcp zapot
1945	2005	340.244	71.639	14.331	254.274	157.65	243.62
1946	2006	333.901	75.766	10.949	247.186	153.26	239.97
1947	2007	443.680	78.690	76.423	288.566	178.91	334.02
1948	2008	639.294	163.883	110.811	364.600	226.05	500.75
1949	2009	265.543	47.185	14.436	203.922	126.43	188.05
1950	2010	306.140	85.332	28.366	192.442	119.31	233.01
1951	2011	310.533	83.328	6.668	220.537	136.73	226.73
1952	2012	432.167	68.882	56.756	306.528	190.05	315.69
1953	2013	416.058	81.444	88.270	246.344	152.73	322.45
1954	2014	182.317	58.767	7.046	116.503	72.23	138.05
1955	2015	859.825	201.080	184.923	473.822	293.77	679.77
1956	2016	378.095	81.786	41.049	255.261	158.26	281.10
1957	2017	71.178	15.625	7.447	48.106	29.83	52.90
1958	2018	1442.767	388.987	438.520	615.260	381.46	1208.97
1959	2019	416.346	66.480	75.942	273.924	169.83	312.26
1960	2020	248.822	75.770	7.872	165.180	102.41	186.05
1961	2021	288.704	34.274	8.019	246.411	152.77	195.07
1962	2022	326.651	89.314	14.552	222.785	138.13	241.99
1963	2023	816.977	59.936	90.012	667.029	413.56	563.51
1964	2024	322.604	33.988	72.513	216.103	133.98	240.49
1965	2025	1165.201	160.537	361.850	642.814	398.54	920.93
1966	2026	512.943	138.559	121.555	252.829	156.75	416.87
1967	2027	1802.616	469.227	382.106	951.283	589.80	1441.13
1968	2028	518.636	109.677	40.161	368.798	228.65	378.49
1969	2029	148.347	33.942	9.310	105.095	65.16	108.41
1970	2030	765.537	170.625	133.540	461.372	286.05	590.22
1971	2031	1305.682	369.415	488.638	447.629	277.53	1135.58
1972	2032	182.587	17.465	14.857	150.265	93.16	125.49
1973	2033	1873.146	512.317	443.044	917.785	569.03	1524.39
1974	2034	262.050	12.264	34.263	215.522	133.62	180.15
1975	2035	793.196	156.362	182.372	454.462	281.77	620.50
1976	2036	1351.421	407.551	526.908	416.961	258.52	1192.98
1977	2037	508.847	103.303	75.275	330.269	204.77	383.34
1978	2038	379.762	101.601	58.703	219.458	136.06	296.37
1979	2039	147.280	12.455	11.239	123.587	76.62	100.32
1980	2040	173.055	12.495	107.362	53.199	32.98	152.84
1981	2041	198.197	12.536	11.673	173.988	107.87	132.08
1982	2042	93.307	12.333	11.896	69.078	42.83	67.06
1983	2043	284.480	76.583	43.024	164.872	102.22	221.83
1984	2044	355.122	106.545	49.751	198.827	123.27	279.57
1985	2045	158.268	48.124	36.758	73.386	45.50	130.38
1986	2046	754.592	136.103	70.305	548.184	339.87	546.28
1987	2047	200.311	29.274	136.539	34.499	21.39	187.20
1988	2048	640.718	116.790	172.896	351.032	217.64	507.33
1989	2049	166.092	16.457	32.061	117.574	72.90	121.41
1990	2050	722.900	92.601	182.902	447.397	277.39	552.89
1991	2051	1654.500	458.621	567.970	627.909	389.30	1415.89
1992	2052	897.535	231.290	163.397	502.848	311.77	706.45
1993	2053	280.505	34.914	77.070	168.521	104.48	216.47
1994	2054	186.788	13.149	45.439	128.200	79.48	138.07
1995	2055	417.031	59.199	69.618	288.214	178.69	307.51
1996	2056	299.121	13.149	44.622	241.350	149.64	207.41
1997	2057	68.524	28.008	14.953	25.563	15.85	58.81
1998	2058	300.987	131.983	184.327	0.000	0.00	316.31
1999	2059	203.657	122.364	20.270	61.024	37.83	180.47
2000	2060	96.595	46.203	14.953	35.439	21.97	83.13
2001	2061	295.995	99.407	53.066	143.522	88.98	241.46
2002	2062	521.069	104.514	185.131	231.424	143.48	433.13
2003	2063	969.461	223.728	559.972	185.762	115.17	898.87
2004	2064	1000.014	204.713	414.512	380.789	236.09	855.31

524.965 117.809 125.153 282.259 175.000 417.963

Cuenca La Cuña= **19218** km2
 Cuenca Zapotillo= **17617** km2
 Cuenca San Nicolas = 15260 km2
 Area Sabino+San Gaspar= 14949 km3
 Cuenca Cuña-(Sabino+Gaspar) **4269**
 Zapotillo-(Sabino+Gaspar) **2668**
 Factor de transporte Cuenca propia **0.62**