

CUADRO 7.2.3.4 - ANALISIS DE SENSIBILIDAD - PERDIDAS ECONOMICAS OCASIONADAS POR EL FENOMENO DE LAS AGUAS CLARAS

Precio de la manzana y pera :+20% precio básico      Tasa de interés: 10 % anual      Pérdida por freática entre 0 y 1m.: 20%      Incidencia de a. dasas en salinidad: 25 %  
Precio de la vid.: + 20% precio básico      Pérdida por salinidad: 25 %      Pérdida por freática entre 1 y 1.5 m.: 10%      Incidencia de a. claras en capa frática: 25 %

PERDIDAS ECONOMICAS POR SALINIDAD EN VID

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$ha]	INFLUENCIA	ANUALIDAD [€]	ACTUALIZ. [€]
1979	1.733	1.221	0.0156	33.056	222.376
1980	1.733	1.221	0.0313	66.110	404.350
1981	1.733	1.221	0.0469	99.164	551.345
1982	1.649	1.257	0.0625	129.661	654.602
1983	1.565	1.294	0.0825	126.558	581.530
1984	1.481	1.331	0.0825	123.204	514.652
1985	1.396	1.369	0.0625	119.462	453.771
1986	1.312	1.407	0.0625	115.417	394.452
1987	1.228	1.445	0.0625	110.973	348.282
1988	1.144	1.484	0.0625	106.154	302.870
1989	1.060	1.523	0.0625	100.963	261.946
1990	976	1.563	0.0625	95.364	224.884
1991	892	1.603	0.0625	89.392	191.599
1992	808	1.643	0.0625	83.000	161.744
1993	724	1.684	0.0625	76.212	135.014
1994	696	1.695	0.0625	73.757	118.787
1995	669	1.705	0.0625	71.265	104.339
1996	641	1.716	0.0625	68.735	91.486
1997	613	1.727	0.0625	66.167	80.062
1998	585	2.097	0.0625	76.702	84.372
1999	557	2.467	0.0625	85.951	
SUBTOTAL				5.972.524	

PERDIDAS ECONOMICAS POR FREATICA ALTA EN VID

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$ha]	INFLUENCIA	ANUALIDAD [€]	ACTUALIZ. [€]
1979	6.722	3.312	0.0156	347.884	2.340.391
1980	6.722	3.312	0.0313	695.768	4.255.256
1981	6.722	3.312	0.0469	1.043.653	5.802.622
1982	6.703	3.332	0.0625	1.386.796	7.055.268
1983	6.683	3.361	0.0825	1.359.671	6.431.448
1984	6.663	3.370	0.0825	1.403.165	5.881.367
1985	6.643	3.387	0.0625	1.465.261	5.340.349
1986	6.623	3.404	0.0625	1.429.022	4.864.326
1987	6.603	3.420	0.0625	1.411.391	4.429.550
1988	6.583	3.435	0.0625	1.413.392	4.032.571
1989	6.563	3.450	0.0625	1.415.008	3.676.213
1990	6.543	3.463	0.0625	1.416.297	3.339.555
1991	6.523	3.476	0.0625	1.417.209	3.037.913
1992	6.504	3.500	0.0625	1.422.641	2.772.324
1993	6.484	3.524	0.0625	1.427.810	2.529.453
1994	6.557	3.601	0.0625	1.475.578	2.376.433
1995	6.631	3.677	0.0625	1.523.588	2.230.685
1996	6.704	3.751	0.0625	1.571.823	2.092.097
1997	6.778	3.825	0.0625	1.620.270	1.960.527
1998	6.851	3.803	0.0625	1.626.207	1.791.027
1999	6.925	3.780	0.0625	1.635.937	
SUBTOTAL				77.849.051	

PERDIDAS ECONOMICAS POR FREATICA ALTA EN VID

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$ha]	INFLUENCIA	ANUALIDAD [€]	ACTUALIZ. [€]
1979	1.386	1.221	0.0126	21.155	142.321
1980	1.386	1.221	0.0250	42.310	258.765
1981	1.386	1.221	0.0375	63.465	352.861
1982	1.319	1.257	0.0500	82.919	419.112
1983	1.252	1.294	0.0650	80.997	372.179
1984	1.184	1.331	0.0650	78.850	329.377
1985	1.117	1.369	0.0500	76.475	280.414
1986	1.050	1.407	0.0500	73.867	235.010
1987	983	1.445	0.0500	71.023	222.901
1988	915	1.484	0.0500	67.939	193.857
1989	848	1.523	0.0500	64.610	167.562
1990	781	1.563	0.0500	61.033	143.913
1991	714	1.603	0.0500	57.205	122.623
1992	647	1.643	0.0500	53.120	103.516
1993	579	1.684	0.0500	48.776	86.409
1994	557	1.695	0.0500	47.205	76.024
1995	535	1.705	0.0500	45.600	66.777
1996	513	1.716	0.0500	43.990	58.551
1997	490	1.727	0.0500	42.347	51.240
1998	468	2.097	0.0500	49.089	53.898
1999	446	2.467	0.0500	55.009	
SUBTOTAL				3.822.416	

PERDIDAS ECONOMICAS POR FREATICA ALTA EN VID

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$ha]	INFLUENCIA	ANUALIDAD [€]	ACTUALIZ. [€]
1979	4.332	1.221	0.0083	33.056	222.376
1980	4.332	1.221	0.0125	66.110	404.350
1981	4.332	1.221	0.0168	99.164	551.345
1982	4.121	1.257	0.0250	129.661	654.602
1983	3.911	1.294	0.0250	126.558	581.530
1984	3.701	1.331	0.0250	123.204	514.652
1985	3.491	1.369	0.0250	119.462	453.771
1986	3.281	1.407	0.0250	115.417	394.452
1987	3.071	1.445	0.0250	110.973	348.282
1988	2.861	1.484	0.0250	106.154	302.870
1989	2.651	1.523	0.0250	100.963	261.946
1990	2.441	1.563	0.0250	95.364	224.884
1991	2.231	1.603	0.0250	89.392	191.599
1992	2.021	1.643	0.0250	83.000	161.744
1993	1.811	1.684	0.0250	76.212	135.014
1994	1.741	1.695	0.0250	73.757	118.787
1995	1.672	1.705	0.0250	71.265	104.339
1996	1.602	1.716	0.0250	68.735	91.486
1997	1.533	1.727	0.0250	66.167	80.062
1998	1.463	2.097	0.0250	76.702	84.372
1999	1.394	2.467	0.0250	85.951	
SUBTOTAL				5.972.524	

PERDIDAS ECONOMICAS POR FREATICA ALTA EN MANZANA Y PERA

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$ha]	INFLUENCIA	ANUALIDAD [€]	ACTUALIZ. [€]
1979	5.378	3.312	0.0125	222.646	1.497.850
1980	5.378	3.312	0.0250	445.292	2.723.364
1981	5.378	3.312	0.0375	667.338	3.713.678
1982	5.362	3.332	0.0500	893.309	4.815.205
1983	5.346	3.351	0.0500	886.789	4.116.127
1984	5.330	3.370	0.0500	880.025	3.791.275
1985	5.314	3.387	0.0500	866.607	3.417.823
1986	5.298	3.404	0.0500	861.774	3.113.169
1987	5.282	3.420	0.0500	850.239	2.834.912
1988	5.266	3.435	0.0500	840.571	2.580.846
1989	5.251	3.450	0.0500	830.817	2.348.938
1990	5.235	3.463	0.0500	820.430	2.137.215
1991	5.219	3.476	0.0500	807.014	1.944.264
1992	5.203	3.500	0.0500	810.490	1.774.287
1993	5.187	3.524	0.0500	813.799	1.616.890
1994	5.166	3.601	0.0500	844.370	1.503.917
1995	5.304	3.677	0.0500	975.096	1.427.638
1996	5.363	3.751	0.0500	1.005.987	1.338.942
1997	5.422	3.825	0.0500	1.036.973	1.254.737
1998	5.481	3.803	0.0500	1.042.052	1.148.258
1999	5.540	3.780	0.0500	1.047.000	
SUBTOTAL				49.823.393	

PERDIDAS ECONOMICAS POR FREATICA ALTA EN MANZANA Y PERA

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$ha]	INFLUENCIA	ANUALIDAD [€]	ACTUALIZ. [€]
1979	16.808	3.312	0.0063	347.884	2.340.391
1980	16.808	3.312	0.0125	695.768	4.255.256
1981	16.808	3.312	0.0188	1.043.653	5.802.622
1982	16.786	3.332	0.0250	1.386.796	7.055.268
1983	16.707	3.351	0.0250	1.359.671	6.431.448
1984	16.657	3.370	0.0250	1.403.165	5.881.367
1985	16.607	3.387	0.0250	1.465.261	5.340.349
1986	16.557	3.404	0.0250	1.429.022	4.864.326
1987	16.508	3.420	0.0250	1.411.391	4.429.550
1988	16.458	3.435	0.0250	1.413.392	4.032.571
1989	16.408	3.450	0.0250	1.415.008	3.676.213
1990	16.358	3.463	0.0250	1.416.297	3.339.555
1991	16.309	3.476	0.0250	1.417.209	3.037.913
1992	16.259	3.500	0.0250	1.422.641	2.772.324
1993	16.209	3.524	0.0250	1.427.810	2.529.453
1994	16.393	3.601	0.0250	1.475.578	2.376.433
1995	16.577	3.677	0.0250	1.523.588	2.230.685
1996	16.760	3.751	0.0250	1.571.823	2.092.097
1997	16.844	3.825	0.0250	1.620.270	1.960.527
1998	17.128	3.803	0.0250	1.626.207	1.791.027
1999	17.312	3.780	0.0250	1.635.937	
SUBTOTAL				77.849.051	

COSTO ADICIONAL EN OPERACION Y MANTENIMIENTO DE CANALES

AÑO	SUPERFICIE AFECTADA	CANON DE RIESGO	INFLUENCIA	ANUALIDAD	ACTUALIZ.
	[ha]	[€]	(R=20)	[€]	[€]
1979	58.500	65	0.0500	190.125	1.279.068
1980	58.500	65	0.1000	380.250	2.325.574
1981	58.500	65	0.1500	570.375	3.171.238
1982	58.500	65	0.2000	760.500	3.843.925
1983	58.500	65	0.2000	760.500	3.494.477
1984	58.500	65	0.2000	760.500	3.176.797
1985	58.500	65	0.2000	760.500	2.887.907
1986	58.500	65	0.2000	760.500	2.625.452
1987	58.500	65	0.2000	760.500	2.386.776
1988	58.500	65	0.2000	760.500	2.169.795
1989	58.500	65	0.2000	760.500	1.972.541
1990	58.500	65	0.2000	760.500	1.793.219
1991	58.500	65	0.2000	760.500	1.636.199
1992	58.500	65	0.2000	760.500	1.481.999
1993	58.500	65	0.2000	760.500	1.347.272
1994	58.500	65	0.2000	760.500	1.224.793
1995	58.500	65	0.2000	760.500	1.113.448
1996	58.500	65	0.2000	760.500	1.012.226
1997	58.500	65	0.2000	760.500	920.205
1998	58.500	65	0.2000	760.500	836.550
1999	58.500	65	0.2000	760.500	
SUBTOTAL					41.454.049

1 Tasa = 10

2 Precio Vid  
3 1981 1993  
4 0,132 0,168

Pérdidas freática 0 - 1 = 20

Precio Manzana y otros  
1981 1991 1999  
0,144 0,132 0,126

Variación Precio  
1,2

AÑO	SUPERFICIE		SUPERFICIE		SUPERFICIE		SUPERFICIE		SUPERFICIE		SUPERFICIE		RENDIMIENTO		RENDIMIENTO		PRECIO	
	VID	Manz. Y PERA	VID	Manz. Y PERA	VID	Manz. Y PERA	VID	Manz. Y PERA	VID	Manz. Y PERA	VID	Manz. Y PERA	VID	Manz. Y PERA	VID	Manz. Y PERA		
	SALINIDAD	SALINIDAD	Fr. 0 - 1	Fr. 0 - 1	Fr. 1 - 1,5	Fr. 1 - 1,5			TOTAL								(R/Gr)	(R/Gr)
7	1979	1.733	8.722	1.386	5.378	4.132	16.806	1.221	33.12	42.275	8.663	33.612	9.250	23.000	1.132	1.444		
8	1980	1.733	8.722	1.386	5.378	4.132	16.806	1.221	33.12	42.275	8.663	33.612	9.250	23.000	1.132	1.444		
9	1981	1.733	8.722	1.386	5.378	4.132	16.806	1.221	33.12	42.275	8.663	33.612	9.250	23.000	1.132	1.444		
10	1982	1.649	8.722	1.319	5.382	4.121	16.756	1.257	33.52	41.755	8.243	33.513	9.314	23.333	1.203	1.641		
11	1983	1.649	8.683	1.252	5.430	4.121	16.791	1.291	33.93	41.238	8.323	33.426	9.323	23.333	1.203	1.641		
12	1984	1.681	8.663	1.184	5.330	3.701	16.617	1.331	33.370	40.716	7.940	33.314	9.443	24.000	1.141	1.601		
13	1985	1.386	8.663	1.117	5.314	3.401	16.607	1.369	33.87	40.196	6.682	33.214	9.508	24.333	1.141	1.601		
14	1986	1.621	8.621	1.058	5.318	3.401	16.637	1.401	34.357	39.677	6.582	33.167	9.572	24.667	1.147	1.601		
15	1987	1.228	8.603	993	5.282	3.301	16.508	1.445	34.20	39.517	6.112	33.015	9.636	25.000	1.150	1.317		
16	1988	1.144	7.581	951	5.266	2.861	16.458	1.484	34.55	38.637	5.722	32.916	9.701	25.333	1.153			
17	1989	1.060	8.563	848	5.251	2.861	16.408	1.523	34.90	38.118	5.302	32.816	9.765	25.667	1.157			
18	1990	1.542	7.581	951	5.245	2.841	16.341	1.562	34.77	37.599	4.882	32.719	9.829	26.000	1.160			
19	1991	8.06	5.253	714	5.219	2.231	16.301	1.603	34.78	37.078	4.481	32.617	9.854	26.333	1.162	8.332		
20	1992	8.084	6.47	5.203	2.231	2.129	16.259	1.643	35.06	36.559	4.041	32.518	9.955	26.667	1.165	8.311		
21	1993	724	4.584	979	5.177	1.811	16.209	1.684	35.04	36.039	3.621	32.418	10.023	27.000	1.168			
22	1994	1.557	557	5.157	1.741	1.731	16.091	1.661	35.06	35.518	3.452	32.316	10.091	27.333	1.171			
23	1995	669	6.31	535	5.304	1.672	15.977	1.705	35.77	36.496	3.343	33.153	10.151	28.500	1.168	1.129		
24	1996	641	7.04	513	5.363	1.602	16.760	1.716	35.51	36.725	3.204	33.521	10.216	29.000	1.168	1.128		
25	1997	613	6.775	490	5.422	1.533	16.344	1.727	35.25	36.563	3.065	33.888	10.280	30.000	1.168			
26	1998	5.851	465	4.481	1.463	1.493	15.128	2.063	37.182	35.893	2.786	34.162	10.343	30.667	1.168			
27	1999	557	6.255	446	5.540	1.394	17.312	2.467	37.80	37.410	2.787	34.623	10.280	30.000	1.240	1.168		