

CUADRO 7.2.3.2 - ANALISIS DE SENSIBILIDAD - PERDIDAS ECONOMICAS OCASIONADAS POR EL FENOMENO DE LAS AGUAS CLARAS

Precio de la manzana y pera: 0,105 a 0,12 \$/kg
Precio de la vid: 0,11 a 0,20 \$/kg

Tasa de interés: 12 % anual
Pérdida por salinidad: 25 %

Pérdida por freática entre 0 y 1m: 20%
Pérdida por freática entre 1 y 1.5 m.: 10%

Incidencia de a. d.aras en salinidad: 25 %
Incidencia de a. d.aras en capa frática: 25 %

PERDIDAS ECONOMICAS POR SALINIDAD EN VID

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$/ha]	INFLUENCIA [\$/ha]	ANUALIDAD [\$/]	ACTUALIZ. [\$/]
1979	1.733	1.018	0.0156	27.446	265.713
1980	1.733	1.018	0.0313	55.091	474.488
1981	1.733	1.018	0.0469	82.637	635.475
1982	1.643	1.048	0.0625	107.687	741.309
1983	1.565	1.079	0.0825	165.465	646.541
1984	1.481	1.110	0.0825	162.870	561.969
1985	1.386	1.141	0.0825	95.577	466.843
1986	1.312	1.173	0.0825	96.181	419.886
1987	1.228	1.205	0.0825	92.478	360.292
1988	1.144	1.237	0.0825	88.462	307.716
1989	1.060	1.269	0.0825	84.128	261.267
1990	976	1.302	0.0825	79.470	220.378
1991	892	1.336	0.0825	74.485	184.422
1992	808	1.369	0.0825	69.167	152.306
1993	724	1.403	0.0825	63.510	125.358
1994	696	1.412	0.0825	61.464	108.321
1995	669	1.421	0.0825	59.387	93.447
1996	641	1.430	0.0825	57.279	80.473
1997	613	1.439	0.0825	55.139	69.167
1998	585	1.148	0.0825	42.918	71.589
1999	557	2.056	0.0825	71.626	71.626
SUBTOTAL					6.338.807

PERDIDAS ECONOMICAS POR SALINIDAD EN PERA Y MANZANA

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$/ha]	INFLUENCIA [\$/ha]	ANUALIDAD [\$/]	ACTUALIZ. [\$/]
1979	6.722	2.760	0.0156	289.804	2.736.494
1980	6.722	2.760	0.0313	579.807	4.993.740
1981	6.722	2.760	0.0469	869.711	6.688.044
1982	6.703	2.777	0.0625	1.163.163	7.986.326
1983	6.683	2.793	0.0825	1.168.392	7.150.443
1984	6.663	2.808	0.0825	1.169.304	6.400.262
1985	6.643	2.823	0.0825	1.171.301	5.727.203
1986	6.623	2.837	0.0825	1.174.165	5.123.546
1987	6.603	2.850	0.0825	1.176.159	4.582.289
1988	6.583	2.863	0.0825	1.177.826	4.097.128
1989	6.563	2.875	0.0825	1.179.186	3.662.360
1990	6.543	2.886	0.0825	1.180.248	3.272.920
1991	6.523	2.897	0.0825	1.181.007	2.924.130
1992	6.504	2.917	0.0825	1.182.534	2.620.838
1993	6.484	2.936	0.0825	1.183.842	2.346.537
1994	6.557	3.000	0.0825	1.229.646	2.167.081
1995	6.631	3.064	0.0825	1.260.656	1.997.829
1996	6.704	3.126	0.0825	1.303.853	1.840.249
1997	6.778	3.188	0.0825	1.350.225	1.693.722
1998	6.851	3.169	0.0825	1.363.839	1.513.660
1999	6.925	3.150	0.0825	1.363.281	1.363.281
SUBTOTAL					80.958.087

PERDIDAS ECONOMICAS POR FREATICA ALTA EN VID

CAPA FRATICA ENTRE 0 y 1 m.

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$/ha]	INFLUENCIA [\$/ha]	ANUALIDAD [\$/]	ACTUALIZ. [\$/]
1979	1.386	1.018	0.0125	17.829	170.056
1980	1.386	1.018	0.0250	35.258	303.872
1981	1.386	1.018	0.0375	52.886	406.704
1982	1.319	1.048	0.0500	69.690	474.130
1983	1.252	1.079	0.0500	67.497	413.788
1984	1.184	1.110	0.0500	65.709	359.860
1985	1.117	1.141	0.0500	63.729	311.452
1986	1.050	1.173	0.0500	61.556	266.599
1987	983	1.205	0.0500	59.186	230.587
1988	915	1.237	0.0500	56.616	196.340
1989	848	1.269	0.0500	53.842	167.224
1990	781	1.302	0.0500	50.881	141.042
1991	714	1.336	0.0500	47.670	116.030
1992	647	1.369	0.0500	44.267	97.860
1993	579	1.403	0.0500	40.646	80.229
1994	557	1.412	0.0500	39.337	69.326
1995	525	1.421	0.0500	38.008	59.806
1996	513	1.430	0.0500	36.659	51.503
1997	499	1.439	0.0500	35.289	44.267
1998	468	1.148	0.0500	40.308	45.817
1999	446	2.056	0.0500	45.841	45.841
SUBTOTAL					4.856.836

PERDIDAS ECONOMICAS POR FREATICA ALTA EN VID

CAPA FRATICA ENTRE 1 y 1.5 m.

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$/ha]	INFLUENCIA [\$/ha]	ANUALIDAD [\$/]	ACTUALIZ. [\$/]
1979	4.332	1.018	0.0063	27.846	265.713
1980	4.332	1.018	0.0125	55.091	474.488
1981	4.332	1.018	0.0188	82.637	635.475
1982	4.121	1.048	0.0250	107.967	741.309
1983	3.911	1.079	0.0250	105.465	646.541
1984	3.701	1.110	0.0250	102.670	561.969
1985	3.481	1.141	0.0250	99.577	466.843
1986	3.261	1.173	0.0250	96.181	419.886
1987	3.071	1.205	0.0250	92.478	360.292
1988	2.881	1.237	0.0250	88.462	307.716
1989	2.691	1.269	0.0250	84.128	261.267
1990	2.441	1.302	0.0250	79.470	220.378
1991	2.231	1.336	0.0250	74.485	184.422
1992	2.021	1.369	0.0250	69.167	152.306
1993	1.811	1.403	0.0250	63.510	125.358
1994	1.741	1.412	0.0250	61.464	108.321
1995	1.672	1.421	0.0250	59.387	93.447
1996	1.602	1.430	0.0250	57.279	80.473
1997	1.533	1.439	0.0250	55.139	69.167
1998	1.463	1.148	0.0250	60.918	71.589
1999	1.394	2.056	0.0250	71.626	71.626
SUBTOTAL					6.338.807

PERDIDAS ECONOMICAS POR FREATICA ALTA EN MANZANA Y PERA

CAPA FRATICA ENTRE 0 y 1 m.

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$/ha]	INFLUENCIA [\$/ha]	ANUALIDAD [\$/]	ACTUALIZ. [\$/]
1979	5.378	2.760	0.0125	185.538	1.789.756
1980	5.378	2.760	0.0250	371.076	3.190.993
1981	5.378	2.760	0.0375	556.615	4.280.348
1982	5.362	2.777	0.0500	744.424	5.111.248
1983	5.346	2.793	0.0500	746.491	4.576.284
1984	5.330	2.808	0.0500	748.354	4.096.107
1985	5.314	2.823	0.0500	750.016	3.665.414
1986	5.298	2.837	0.0500	751.478	3.279.071
1987	5.282	2.850	0.0500	752.742	2.932.665
1988	5.266	2.863	0.0500	753.809	2.622.162
1989	5.251	2.875	0.0500	754.680	2.343.923
1990	5.235	2.886	0.0500	755.359	2.094.609
1991	5.219	2.897	0.0500	755.845	1.871.443
1992	5.203	2.917	0.0500	756.742	1.677.336
1993	5.187	2.936	0.0500	757.499	1.503.064
1994	5.166	3.000	0.0500	786.975	1.386.919
1995	5.304	3.064	0.0500	812.580	1.278.810
1996	5.363	3.126	0.0500	838.306	1.177.759
1997	5.422	3.188	0.0500	864.114	1.083.982
1998	5.481	3.169	0.0500	868.377	972.582
1999	5.540	3.150	0.0500	872.500	872.500
SUBTOTAL					51.811.896

PERDIDAS ECONOMICAS POR FREATICA ALTA EN MANZANA Y PERA

CAPA FRATICA ENTRE 1 y 1.5 m.

AÑO	SUPERFICIE AFECTADA [ha]	INGRESO BRUTO [\$/ha]	INFLUENCIA [\$/ha]	ANUALIDAD [\$/]	ACTUALIZ. [\$/]
1979	16.808	2.760	0.0063	289.804	2.736.494
1980	16.808	2.760	0.0125	579.807	4.993.740
1981	16.808	2.760	0.0188	869.711	6.688.044
1982	16.756	2.777	0.0250	1.163.163	7.986.326
1983	16.707	2.793	0.0250	1.168.392	7.150.443
1984	16.657	2.808	0.0250	1.169.304	6.400.262
1985	16.607	2.823	0.0250	1.171.301	5.727.203
1986	16.557	2.837	0.0250	1.174.165	5.123.546
1987	16.508	2.850	0.0250	1.176.159	4.582.289
1988	16.458	2.863	0.0250	1.177.826	4.097.128
1989	16.408	2.875	0.0250	1.179.186	3.662.360
1990	16.358	2.886	0.0250	1.180.248	3.272.920
1991	16.309	2.897	0.0250	1.181.007	2.924.130
1992	16.259	2.917	0.0250	1.182.534	2.620.838
1993	16.209	2.936	0.0250	1.183.842	2.346.537
1994	16.393	3.000	0.0250	1.229.646	2.167.081
1995	16.577	3.064	0.0250	1.260.656	1.997.829
1996	16.760	3.126	0.0250	1.303.853	1.840.249
1997	16.844	3.188	0.0250	1.350.225	1.693.722
1998	17.128	3.169	0.0250	1.363.839	1.513.660
1999	17.312	3.150	0.0250	1.363.281	1.363.281
SUBTOTAL					86.958.087

COSTO ADICIONAL EN OPERACION Y MANTENIMIENTO DE CANALES

AÑO	SUPERFICIE AFECTADA [ha]	CANON DE REGO [\$/ha]	INFLUENCIA [\$/ha]	ANUALIDAD [\$/]	ACTUALIZ. [\$/]
1979	58.500	65	0.0500	190.125	1.834.001
1980	58.500	65	0.1000	380.250	3.276.003
1981	58.500	65	0.1500	570.375	4.386.164
1982	58.500	65	0.2000	760.500	5.221.624
1983	58.500	65	0.2000	760.500	4.662.164
1984	58.500	65	0.2000	760.500	4.162.647
1985	58.500	65	0.2000	760.500	3.716.645
1986	58.500	65	0.2000	760.500	3.316.437
1987	58.500	65	0.2000	760.500	2.962.890
1988	58.500	65	0.2000	760.500	2.646.437
1989	58.500	65	0.2000	760.500	2.361.998
1990	58.500	65	0.2000	760.500	2.108.506
1991	58.500	65	0.2000	760.500	1.882.970
1992	58.500	65	0.2000	760.500	1.681.223
1993	58.500	65	0.2000	760.500	1.501.092
1994	58.500	65	0.2000	760.500	1.340.261
1995	58.500	65	0.2000	760.500	1.196.661
1996	58.500	65	0.2000	760.500	1.068.446
1997	58.500	65	0.2000	760.500	953.971
1998	58.500	65	0.2000	760.500	851.760
1999	58.500	65	0.2000	760.500	760.500
SUBTOTAL					51.892.827

1 Tasa = 12
2 Precio Vid
3 1981
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