

## CAPITULO 21

### MIEL Y CERA

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MIEL Y CERA: Serie histórica del número de colmenas, producciones de miel y cera, valor y comercio exterior

Años	Número de colmenas			Rendimiento en miel por colmena		Producción	
	Movillistas — Miles	Fijistas — Miles	Total — Miles	Movillistas — Kg/año	Fijistas — Kg/año	Miel — Tm	Cera — Tm
1962	360	384	744	20,2	6,2	9.644	606
1963	394	342	736	19,4	6,4	9.864	661
1964	393	292	685	19,6	6,5	9.584	593
1965	404	318	722	21,5	5,8	10.508	601
1966	363	203	576	19,6	6,5	8.439	459
1967	354	211	565	20,8	6,7	8.763	492
1968	387	195	582	19,7	6,8	8.951	300
1969	389	190	579	19,9	7,1	9.106	496
1970	343	155	498	20,3	7,4	8.127	442
1971	342	170	512	20,0	7,9	8.197	510
1972	346	158	504	22,4	8,2	9.030	488
1973	392	172	564	23,0	7,8	10.381	546
1974	422	195	616	21,2	8,0	10.535	602
1975	381	205	586	21,9	7,4	9.870	667
1976	389	199	588	18,4	8,2	9.029	679
1977	440	189	629	18,2	8,1	9.778	773
1978	470	188	658	19,0	8,0	10.899	710
1979	529	204	733	18,0	8,0	11.491	733
1980	565	232	797	18,0	8,0	12.513	670
1981	812	201	1.013	16,0	8,0	14.501	628
1982	804	231	1.035	15,1	6,0	13.544	730
1983	881	228	1.109	14,0	6,0	13.183	979
1984	952	230	1.182	15,0	7,0	15.932	973
1985	1.102	245	1.347	13,0	7,0	16.069	1.002
1986	1.109	245	1.354	13,7	5,7	16.556	996
1987	1.367	238	1.605	15,3	5,8	22.299	1.326
1988	1.198	255	1.453	16,8	5,1	21.443	1.103

Años	Precio percibido por los agricultores		Valor		Comercio exterior de miel	
	Miel — Ptas/Kg	Cera — Ptas/Kg	Miel — Millones de ptas	Cera — Millones de ptas	Importaciones — Tm	Exportaciones — Tm
1962	19,35	46,19	187	28	Sin datos	Sin datos
1963	20,45	47,97	202	32	6	4.031
1964	26,84	47,90	257	28	3	1.496
1965	27,04	51,73	284	31	2	2.370
1966	25,18	52,45	212	24	7	2.607
1967	25,42	52,24	223	26	10	3.175
1968	26,23	52,35	235	26	4	3.117
1969	28,20	55,80	257	28	3	2.698
1970	26,90	56,52	219	25	6	3.479
1971	25,67	60,64	210	31	4	5.796
1972	26,91	60,23	243	29	2	10.914
1973	43,68	70,00	453	38	16	7.651
1974	64,20	70,00	676	42	4	6.311
1975	64,39	71,00	636	45	14	5.695
1976	81,24	100,09	734	68	70	5.240
1977	94,74	108,18	925	84	211	4.748
1978	113,40	147,00	1.236	104	11	4.594
1979	120,68	173,52	1.387	127	4.246	1.768
1980	151,50	193,65	1.896	130	4.079	1.928
1981	179,42	220,35	2.602	138	2.762	2.383
1982	209,90	249,87	2.843	182	5.636	1.757
1983	246,83	288,64	3.254	283	7.673	1.238
1984	276,43	359,32	4.404	350	4.818	1.344
1985	280,91	408,00	4.514	408	5.071	1.907
1986	338,45	426,72	5.603	425	6.359	2.466
1987	279,92	425,76	6.242	565	8.043	1.499
1988	248,11	384,30	5.320	424	7.929	1.523

## MIEL: Número de colmenas y producción de miel y cera, 1988

Provincias y comunidades autónomas	Número de colmenas			Producción de miel (Kg)			Producción de cera (Kg)		
	Movillistas	Fijistas	Total	Colmenas			Colmenas		
				Movillistas	Fijistas	Total	Movillistas	Fijistas	Total
15 Coruña (La)	18.000	7.000	25.000	324.000	28.000	352.000	12.600	10.500	23.100
27 Lugo	24.000	8.000	32.000	180.000	16.000	196.000	9.600	6.400	16.000
32 Orense	10.900	25.000	35.900	152.600	60.000	212.600	1.362	20.000	21.362
36 Pontevedra	10.100	15.800	25.900	181.800	142.200	324.000	8.080	28.440	36.520
GALICIA	63.000	55.800	118.800	838.400	246.200	1.084.600	31.642	65.340	96.982
33 P. DE ASTURIAS	44.717	24.550	69.267	447.170	36.825	483.995	11.179	9.820	20.999
39 CANTABRIA	1.960	4.000	5.960	23.520	28.000	51.520	980	6.000	6.980
1 Alava	5.884	1.617	7.501	67.666	5.660	73.326	4.707	1.374	6.081
20 Guipuzcoa	850	400	1.250	5.950	1.600	7.550	425	600	1.025
48 Vizcaya	9.200	1.090	10.290	92.000	3.270	95.270	9.384	1.112	10.496
PAIS VASCO	15.934	3.107	19.041	165.616	10.530	176.146	14.516	3.086	17.602
31 NAVARRA	10.400	460	10.860	168.480	4.669	173.149	3.120	230	3.350
26 LA RIOJA	18.000	5.000	23.000	180.000	15.000	195.000	7.200	1.000	8.200
22 Huesca	20.000	300	20.300	240.000	1.500	241.500	6.000	150	6.150
44 Teruel	32.000	200	32.200	384.000	1.000	385.000	9.600	500	10.100
50 Zaragoza	69.024	574	69.598	1.035.360	4.592	1.039.952	103.536	1.722	105.258
ARAGÓN	121.024	1.074	122.098	1.659.360	7.092	1.666.452	119.136	2.372	121.508
8 Barcelona	5.800	1.380	7.180	133.400	11.040	144.440	3.480	2.346	5.826
17 Gerona	1.215	1.945	3.160	18.225	29.175	47.400	4.860	7.780	12.640
25 Lerida	11.000	400	11.400	330.000	4.000	334.000	11.000	400	11.400
43 Tarragona	8.906	5.010	13.916	222.650	75.150	297.800	22.265	7.515	29.780
CATALÜNA	26.921	8.735	35.656	704.275	119.365	823.640	41.605	18.041	59.646
7 BALEARES	4.000		4.000	20.000		20.000			
5 Avila	7.500		7.500	127.500		127.500	9.000		9.000
9 Burgos	18.000	2.000	20.000	198.000	10.000	208.000	5.400	1.400	6.800
24 Leon	8.931	8.192	17.123	89.310	32.768	122.078	1.786	3.277	5.063
34 Palencia	3.189	2.157	5.346	63.780	17.256	81.036	1.913	2.588	4.501
37 Salamanca	91.359	4.976	96.335	913.600	15.000	928.600	68.500	1.990	70.490
40 Segovia	1.720	950	2.670	51.600	9.500	61.100	860	950	1.810
42 Sofia	15.000	1.500	16.500	270.000	9.000	279.000	7.500	2.100	9.600
47 Valladolid	900	706	1.606	18.000	7.060	25.060			
49 Zamora	11.832	7.746	19.578	177.480	30.984	208.464	3.550	5.422	8.972
CASTILLA LEON	158.431	28.227	186.658	1.909.270	131.568	2.040.838	98.509	17.727	116.236
28 MADRID	2.566	2.184	4.750	46.188	13.104	59.292	1.796	3.494	5.290
2 Albacete	6.000	1.400	7.400	72.000	5.600	77.600	3.600	2.240	5.840
13 Ciudad Real	10.838	3.161	13.999	162.570	12.644	175.214	3.251	3.161	6.412
16 Cuenca	18.260	2.563	20.823	292.160	20.504	312.664	5.478	1.025	6.503
19 Guadalaajara	26.100	3.900	30.000	574.200	27.300	601.500	2.610	390	3.000
45 Toledo	9.500	1.000	10.500	161.500	5.000	166.500	14.250	2.000	16.250
CASTILLA-MANCHA	70.698	12.024	82.722	1.262.430	71.048	1.333.478	29.189	8.816	38.005
3 Alicante	29.709	500	30.209	742.725	5.000	747.725	17.825	300	18.125
12 Castellon	26.000	30.520	56.520	520.000	213.640	733.640	72.800	30.520	103.320
46 Valencia	151.400	2.500	153.900	3.785.000	25.000	3.810.000	90.840	1.500	92.340
C. VALENCIANA	207.109	33.520	240.629	5.047.725	243.640	5.291.365	181.465	32.320	213.785
30 R. DE MURCIA	70.000		70.000	1.550.000		1.550.000	21.000		21.000
6 Badajoz	105.000	12.000	117.000	1.785.000	36.000	1.821.000	115.500	13.200	128.700
10 Caceres	119.715	24.002	143.717	1.436.580	72.006	1.508.586	23.943	16.801	40.744
EXTREMADURA	224.715	36.002	260.717	3.221.580	108.006	3.329.586	139.443	30.001	169.444
4 Almeria	9.145	1.180	10.325	182.900	9.676	192.576	18.290	2.360	20.650
11 Cadiz	6.850	12.000	18.850	82.200	60.000	142.200	2.740	16.800	19.540
14 Cordoba	14.720	4.067	18.787	250.240	20.335	270.575	5.914	4.809	10.723
18 Granada	5.550	1.500	7.050	83.250	10.500	93.750	2.225	1.500	3.725
21 Huelva	31.492	2.000	33.492	566.856	18.000	584.856	62.984	5.400	68.384
23 Jaen	14.850	6.370	21.220	267.300	57.330	324.630	7.425	9.555	16.980
29 Malaga	14.000	6.000	20.000	189.000	21.000	210.000	14.000	18.000	32.000
41 Sevilla	51.200	3.120	54.320	1.024.000	31.200	1.055.200	25.600	6.240	31.840
ANDALUCIA	147.807	36.237	184.044	2.645.746	228.041	2.873.787	139.178	64.664	203.842
35 Palmas (Las)	4.000	4.000	8.000	64.000	24.000	88.000			
38 S. C. Tenerife	6.500	700	7.200	195.000	7.000	202.000		210	210
CANARIAS	10.500	4.700	15.200	259.000	31.000	290.000	0	210	210
ESPAÑA	1.197.782	255.620	1.453.402	20.148.760	1.294.088	21.442.848	839.958	263.121	1.103.079

Table 1. Summary of the data sets used in the study.

Dataset	Source	Training			Validation			Test	Total
		Size	Labels	Classes	Size	Labels	Classes		
MNIST	Handwritten digits	55,000	10	10	5,000	10	10	60,000	10
	Handwritten digits	50,000	10	10	5,000	10	10	55,000	10
SVHN	Street View House Numbers	74,500	10	10	7,500	10	10	82,000	10
	Street View House Numbers	70,000	10	10	7,000	10	10	77,000	10
EMNIST	Handwritten digits	100,000	10	10	10,000	10	10	110,000	10
	Handwritten digits	90,000	10	10	10,000	10	10	100,000	10
CIFAR-10	ImageNet	60,000	10	10	6,000	10	10	66,000	10
	ImageNet	50,000	10	10	5,000	10	10	55,000	10
ImageNet	ImageNet	1,200,000	1,000	1,000	120,000	1,000	1,000	1,320,000	1,000
	ImageNet	1,100,000	1,000	1,000	120,000	1,000	1,000	1,220,000	1,000
ImageNet	ImageNet	1,000,000	1,000	1,000	100,000	1,000	1,000	1,100,000	1,000
	ImageNet	900,000	1,000	1,000	100,000	1,000	1,000	1,000,000	1,000
ImageNet	ImageNet	800,000	1,000	1,000	80,000	1,000	1,000	880,000	1,000
	ImageNet	700,000	1,000	1,000	80,000	1,000	1,000	780,000	1,000
ImageNet	ImageNet	600,000	1,000	1,000	60,000	1,000	1,000	660,000	1,000
	ImageNet	500,000	1,000	1,000	60,000	1,000	1,000	560,000	1,000
ImageNet	ImageNet	400,000	1,000	1,000	40,000	1,000	1,000	440,000	1,000
	ImageNet	300,000	1,000	1,000	40,000	1,000	1,000	340,000	1,000
ImageNet	ImageNet	200,000	1,000	1,000	20,000	1,000	1,000	220,000	1,000
	ImageNet	100,000	1,000	1,000	20,000	1,000	1,000	120,000	1,000