

Table S.1 Surface and population of the communes of Bouches-du-Rhône

	Surface (ha)	Population
Aureille	2118	1568
Barbentane	2734	4039
Les Baux-De-Provence	1791	420
Boulbon	1937	1497
Cabannes	1547	4423
Chateaurenard	3477	15644
Eygalières	3435	1778
Eyguières	6761	6852
Eyragues	2099	4271
Fontvieille	3897	3619
Graveson	2360	4659
Maillane	1685	2494
Mas-Blanc-Des-Alpilles	153	515
Maussane-Les-Alpilles	3185	2203
Saint-Pierre-De-Mezoargues	443	221
Molleges	1414	2551
Mouries	3792	3470
Noves	2653	5610
Orgon	3553	3109
Paradou	1631	1853
Plan-D'orgon	1487	3326
Rognonas	851	4018
Saint-Andiol	1585	3303
Saint-Etienne-Du-Gres	2977	2406
Saint-Remy-De-Provence	9031	9765
Senas	3101	7006
Tarascon	7429	14583
Verquieres	432	805
Total Bouches-du-Rhône	77556	116008

Table S.2. Surface and population of the communes of Gard.

	Surface (ha)	Population
Les Angles	1639	8443
Aramon	3109	4047
Argilliers	701	467
Bagnols-Sur-Ceze	3157	18172
La Bastide-D'engras	991	207
Beaucaire	8606	15859
Bellegarde	4563	6707
Bezouce	1245	2229
Cabrieres	1444	1588
La Capelle-Et-Masmolene	2472	445
Castillon-Du-Gard	1794	1607
Cavillargues	1123	819
Chusclan	1283	1008
Codolet	529	685
Collias	2125	1112
Comps	831	1731
Connaux	932	1641
Domazan	1151	913
Estezargues	1184	511
Flaux	1119	341
Fournes	1697	1017
Fourques	3832	2878
Gaujac	1010	1107
Jonquieres-Saint-Vincent	2133	3649
Laudun-L'ardoise	3407	6038
Ledenon	1930	1476
Lirac	963	888
Manduel	2631	6542
Marguerittes	2498	8577
Meynes	1708	2457
Montfaucon	403	1432
Montfrin	1501	3199
Orsan	691	1067
Le Pin	580	399
Pougnadoresse	729	247
Poulx	1169	3914
Pouzilhac	1624	660
Pujaut	2379	4139
Redessan	1562	4097
Remoulins	828	2337
Rochefort-Du-Gard	3368	7511
Roquemaure	2639	5464
Sabran	3583	1739
Saint-Bonnet-Du-Gard	662	861
Saint-Etienne-Des-Sorts	953	552
Saint-Genies-De-Comolas	782	1874

Saint-Gervais	1187	691
Saint-Gervasy	683	1793
Saint-Hilaire-D'ozilhan	1644	1009
Saint-Hippolyte-De-Montaigu	401	255
Saint-Laurent-Des-Arbres	1699	2829
Saint-Maximin	970	705
Saint-Nazaire	671	1192
Saint-Pons-La-Calm	648	427
Saint-Quentin-La-Poterie	2400	2951
Saint-Siffret	1192	1045
Saint-Victor-Des-Oules	457	310
Saint-Victor-La-Coste	2669	2009
Sanilhac-Sagriès	2269	871
Sauveterre	1281	1909
Saze	1308	1971
Sernhac	905	1728
Tavel	2035	1915
Theziers	1165	1100
Tresques	1790	1774
Uzes	2551	8569
Vallabregues	1453	1369
Vallabrix	804	410
Valliguières	1968	563
Venejan	1899	1211
Vers-Pont-Du-Gard	1920	1859
Villeneuve-Les-Avignon	1841	11716
Saint-Paul-Les-Fonts	528	1037
Total Gard	123599	195871

Table S.3. Surface and population of the communes of Vaucluse.

	Surface (ha)	Population
Althen-Des-Paluds	612	2671
Aubignan	1552	5404
Avignon	6473	92209
Le Barroux	1585	668
Le Beaucet	895	336
Beaumes-De-Venise	1920	2387
Beaumettes	226	247
Bedarrides	2528	5010
Cabrières-D'avignon	1482	1733
Caderousse	3226	2771
Cairanne	2303	1046
Camaret-Sur-Aigues	1842	4659
Caromb	1811	3199
Carpentras	3808	28447
Caumont-Sur-Durance	1877	4718

Cavaillon	4597	26201
Chateauneuf-De-Gadagne	1301	3303
Chateauneuf-Du-Pape	2469	2199
Cheval-Blanc	5827	4092
Courthézon	3262	5487
Entraigues-Sur-La-Sorgue	1657	8230
Gigondas	2760	534
Gordes	4925	1961
L'isle-Sur-La-Sorgue	4455	19240
Jonquerettes	244	1440
Jonquieres	2404	4962
Lafare	428	131
Lagarde-Pareol	914	312
Lagnes	1627	1613
Loriol-Du-Comtat	1110	2549
Malemort-Du-Comtat	1138	1682
Maubec	914	1883
Mazan	3834	5841
Menerbes	3077	999
Modene	501	454
Mondragon	4038	3856
Monteux	3975	12537
Morieres-Les-Avignon	1045	8100
Mornas	2622	2403
Oppède	2419	1337
Orange	7563	29482
Pernes-Les-Fontaines	5089	9823
Piolenc	2423	5093
Le Pontet	1119	17476
Rasteau	1912	826
Robion	1809	4273
La Roque-Alric	488	51
La Roque-Sur-Pernes	1138	425
Sablet	1082	1240
Sainte-Cecile-Les-Vignes	1980	2420
Saint-Didier	395	2125
Saint-Hippolyte-Le-Graveyron	472	180
Saint-Pantaleon	56	213
Saint-Pierre-De-Vassols	483	516
Saint-Saturnin-Les-Avignon	637	4830
Sarrians	3798	5894
Saumane-De-Vaucluse	2058	931
Serignan-Du-Comtat	2039	2474
Sorgues	3353	18328
Suzette	665	124
Taillades	691	1960
Le Thor	3559	8706
Travaillan	1784	718
Uchaux	1882	1531

Vacqueyras	858	1202
Fontaine-Vaucluse	714	644
Vedene	1127	11045
Velleron	1625	2930
Venasque	3476	1099
Violes	1500	1616
Total Vaucluse	149457	415026

Table S.4 Food consumption and yields.

Commodity	Consumption (Kg capita ⁻¹ yr ⁻¹)	Yields (t ha ⁻¹ yr ⁻¹)
Laying hens	11.53	-
Poultry meat	22.90	-
Pig meat	32.78	-
Fish meat	34.40	-
Milk for dairy products	337.91	-
Beef cattle	23.15	-
Sheep and goat meat	2.84	-
Cereals	132.00	4.21
Oilseeds	16.37	2.29
Potatoes & Sweet Potatoes	50.86	33.05
Sugar	38.78	83.1
Tomato	21.71	115.32
Vegetable	68.49	59.30
Pulses	1.87	2.81
Onion	6.46	36.8
Apples	9.36	42.65
Fruits, other (temperate regions)	29.53	20.04
Grapes	13.25	6.7
Citrus Fruit and other tropical fruit	33.96	-
Banana	5.94	-
Nuts	5.31	-
Tea	0.26	-
Coffee	5.26	-
Wine	40.65	-
Beer	27.62	-
Total	973.19	

Food consumption (Kg capita⁻¹ yr⁻¹) and yields (t ha⁻¹ yr⁻¹) of the study area. Note that yields for animal and non-domestic plant-based products are taken from [1].

Table S.5. Area demand, current crop area, and current self-sufficiency.

Food commodity (MFSS model categories)	Area demand per capita (m ² capita ⁻¹)	Area demand per capita (m ² capita ⁻¹) (adjusted categories)*	Current crop area (m ²)	Current crop area per capita (m ² capita ⁻¹)	Current Self-sufficiency (%)
Cereals	313.51	313.51	156,032,213	214.65	68.47
Oilseeds (vegetable fat)	71.64	71.64	36,671,750	50.45	70.42
Potatoes & Sweet Potatoes	15.39				
Sugar (sugar beet. sugar cane)	4.67				
Tomato	1.88				
Vegetables	11.55	30.58	48,811,190	67.15	219.61
Pulses	6.65	6.65	21,992,124	30.25	455.17
Onion	1.76				
Apples	2.19				
Fruits (temperate regions)	14.73	16.93	93,613,294	128.78	760.79
Grapes	19.78				
Citrus Fruit and other tropical fruit	36.17				
Banana	2.91				
Nuts (treenuts. groundnuts. coconuts)	53.10	53.10	29,338	0.04	0.08
Cacao	0.00				
Tea	1.13				
Coffee	62.62				
Wine	82.96	102.74	372,176,197	512.00	498.37
Beer	16.38				

* The area demand is estimated from the MFSS model [1]. The categories have been adjusted in order to match those from the RPG database [2]. Cereals include the following RPG categories: soft wheat, grain and silage maize, barley, other cereals, and rice. Oilseeds include the following RPG categories: rapeseed, sunflower, and other oil seeds. Vegetables include the following RPG categories: vegetables or flowers. Vegetables include the following MFSS categories: vegetables, tomatoes, potatoes and sweet potatoes, and onions. Pulses include the following RPG categories: protein crops and grain leguminous crops. Fruits (temperate regions) include the following RPG categories: orchards. Fruits (temperate regions) include the following MFSS categories: fruits (temperate regions) and apples. Nuts include the following RPG category: nuts. Wine includes the following RPG categories: vineyards. Wine includes the following MFSS categories: wine, and grapes.

References

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