

3. GREEN PROJECT AND AGRICULTURE

Green project, agricultural data, and agricultural census (1997-2007) are the main topics of this chapter.

Green project

Green Project undertook several agricultural works in Lebanon.

Table 3.1 – Green Project. Activities in 2009

Mofafazat	Farmers	Villages	Reworked dounams	Support walls. Square meters	Irrigation Channels. Meters	Concrete tanks. CM	Vine columns	Tank perforation. CM	Fruitful saplings	Fence. Meters	Modern irrigation. Dounams	Paid thousand LBP
North Bekaa	144	88	1,110	540	0	1,742	1,760	67,680	7,258	3,770	42	900,377
Nabatiyeh	181	105	650	24,290	0	1,704	0	0	99	5,994	0	884,688
South Bekaa	161	69	1,176	5,270	0	595	3,360	0	6,195	5,746	78	737,548
Mount-Lebanon 2	115	72	319	12,411	0	4,077	0	4,176	4	3,283	2	694,355
South Lebanon	132	70	518	9,184	13,900	1,002	0	0	380	2,776	5	620,915
North Lebanon 2	103	65	153	16,728	0	3,245	50	15,464	4,260	3,700	2	570,051
North Lebanon 1	110	48	445	6,620	110	2,151	0	29,023	800	0	0	565,023
Mount-Lebanon 1	95	55	135	16,039	157	2,650	0	12,532	1,005	1,071	19	497,271
Total number	1,041	572	4,506	91,082	14,167	17,166	5,170	128,875	20,001	26,919	151	5,470,228

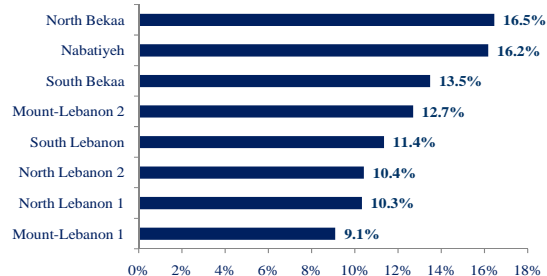
1 Dounam = 1000 m²

Table made by CAS based on Green Project data (2009)

In 2009, Green Project spends 5,470 million LBP to finance 1,041 farmers and agricultural activities in 572 villages. These activities are:

- Reworked area: 4,506 dounams.
- Support walls: 91,082 square meters.
- Irrigation channels: 14,167 meters.
- Concrete tanks 17,166 CM.
- Vine columns: 5,170.
- Tank perforation 128,875 CM.
- Fruitful saplings: 20,001 .
- Fence: 26,919 meters.
- Modern irrigation: 151 dounams.

Graph 3.1 – Green Project paid sums. % in 2009



Graph made by CAS based on Green Project data (2009)

Table 3.2 – Green Project. Regional peaks in 2009

Region	Peak item	Value	%
North Bekaa	Tank perforation. CM	900,377	16.5
	Fruitful spalings	7,258	36.3
	Paid thousands LBP	900,377	16.5
Nabatiyeh	Farmers	181	17.4
	Villages	105	18.4
	Support walls. Square meters	24,290	26.7
	Fence. Meters	5,994	22.3
South Bekaa	Reworked dounams	1,176	26.1
	Vine columns	3,360	65.0
	Modern irrigation. Dounams	78	51.7
South Lebanon	Irrigation channels. Meters	13,900	98.1
North Lebanon 2	Concrete tanks. CM	3,245	18.9

Table made by CAS based on Green Project data (2009)

On the percentage of paid thousands LBP scale, the mohafazats are organized as follows: Bekaa (29.9%), Mount-Lebanon (21.8%), North Lebanon (20.8%), Nabatieh (16.2%) and finally South Lebanon (11.4%).

Agriculture

Lebanese foreign trade of agricultural products consists of imports and exports of vegetable products, meats, bran, meal and oxlip of animal, milk products, eggs and honey.

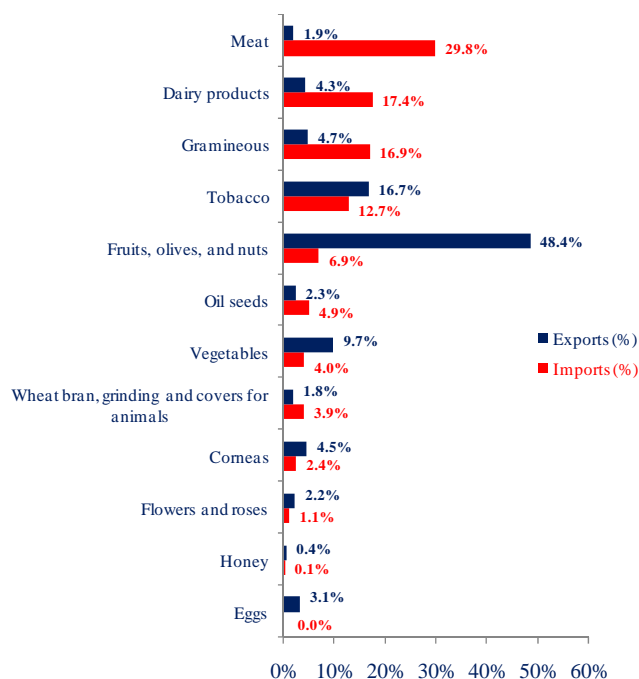
Table 3.3 – Agricultural foreign trade. Values and quantities in 2009

Type of product	Value. Million LBP			Quantity. Tonnes	
	Imports	Exports	Trade balance	Imports	Exports
Meat	651,424	3,279	(648,145)	157,346	1,384
Dairy products	379,840	7,554	(372,286)	69,780	1,455
Gramineous	368,862	8,096	(360,766)	1,044,283	19,787
Tobacco	276,615	29,008	(247,607)	11,606	6,422
Fruit trees, olives and nuts	151,276	84,227	(67,049)	40,584	341,774
Oil seeds	106,360	4,082	(102,278)	49,158	25,139
Vegetables	86,594	16,832	(69,762)	116,561	111,599
Wheat bran, grinding, and covers for animals	84,550	3,139	(81,411)	146,694	23,714
Corneas	52,696	7,894	(44,802)	41,192	6,937
Flowers and roses	23,843	3,755	(20,088)	10,567	1,525
Honey	2,012	627	(1,385)	220	32
Eggs	362	5,458	5,096	59	9,295
Total products	2,184,434	173,951	(2,010,483)	1,688,050	549,063

Table made by CAS based on Ministry of Agriculture (2009) data

Foreign trade balance of agricultural products is equal to (2,010,843 million LBP). It is negative for most items except for eggs (5,096).

Graph 3.2 – Foreign trade of agricultural products. % in 2009



Graph made by CAS based on Ministry of Agriculture data (2009)

In million LBP, fruit trees, olives and nuts are the most exported (48.4%). While the most imported product is meat (29.8%). The trade balance register the higher deficit for meat (32.2%) and an excedent for eggs (0.3%).

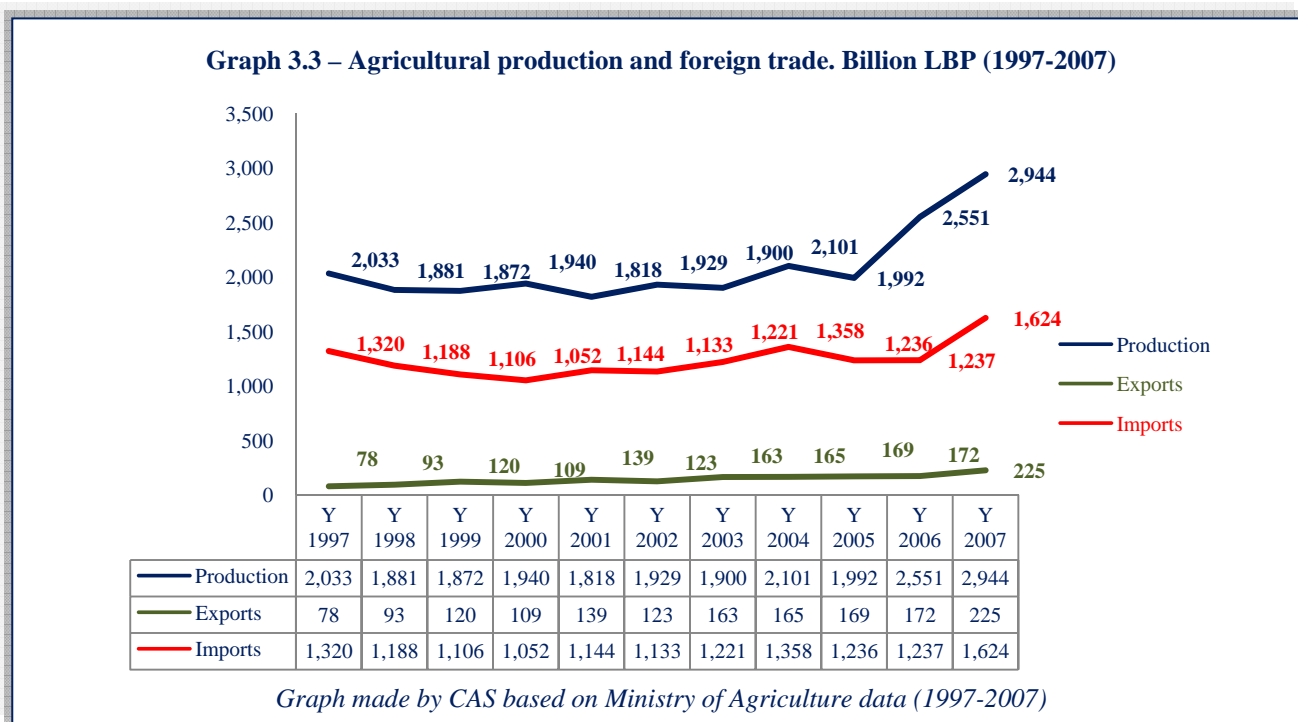
Table 3.4 – Agricultural products foreign trade. % in 2009

Type of product	Imports. %	Exports. %
Meat	29.8	1.9
Dairy products	17.4	4.3
Gramineous	16.9	4.7
Tobacco	12.7	16.7
Fruits, olives, and nuts	6.9	48.4
Oil seeds	4.9	2.3
Vegetables	4.0	9.7
Wheat bran, grinding and covers for animals	3.9	1.8
Corneas	2.4	4.5
Flowers and roses	1.1	2.2
Honey	0.1	0.4
Eggs	0.0	3.1
Total. Million LBP	2,184,434	173,951

Table made by CAS based on Ministry of Agriculture (2009) data

Agricultural census 1997-2007 – Selected indicators

The Ministry of Agriculture conducted the Agricultural census for the years 1997-2007. Its results display the production and foreign trade of vegetal and animal products.



The decade 1997-2007 witnessed an increase in value on all scale:

- Animal and vegetal production: + 44.8%.
- Animal and vegetal exports: + 188.5%.
- Animal and vegetal imports: + 23.0%.

Agricultural census 1998-2007 – Vegetal products

Most vegetal products production increased in value except for Corneas (- 12.0) and nuts (- 2.1%).

Table 3.5 – Vegetal products production. Billion LBP during 1998-2007

Production	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Change.
											% (Last /first year)
Vegetables	39.0	37.0	48.9	46.6	32.6	29.5	36.9	44.8	592.0	770.7	1876.2
Olives	46.7	101.0	265.6	118.8	265.2	110.3	212.3	113.2	283.7	144.7	209.9
Gramineous	40.3	36.6	56.9	68.4	66.3	65.1	89.9	93.0	116.5	104.0	158.1
Tubers, seeds and roots	130.7	112.9	149.2	156.9	142.0	145.7	137.9	133.9	205.2	326.6	149.9
Fruit trees	552.7	537.6	456.4	476.7	536.4	605.4	604.3	573.8	705.7	857.6	55.2
Vegetables with fruits	255.5	238.2	164.6	172.8	165.1	197.7	227.6	243.2	338.9	382.6	49.5
Vegetables with leaves									47.8	61.4	28.5
Other trees									53.6	61.1	14.0
Nuts	58.0	48.3	28.3	30.2	33.1	41.1	39.8	56.8			(2.1)
Corneas	43.5	38.5	47.9	43.5	35.0	28.9	26.9	22.4	27.4	38.3	(12.0)

Table made by CAS based on Ministry of Agriculture (1998-2007) data

Most vegetal products imports increased in value except for tubers, seeds and roots (- 83.8%) and nuts (-33.1%).

Table 3.6 – Vegetal products imports. Billion LBP during 1998-2007

Imports	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Change. % (Last /first year)
Vegetables	2.4	2.6	4.6	4.6	4.4	4.8	5.2	4.9	89.2	130.0	5316.7
Fruit trees	8.3	7.7	10.2	11.6	32.5	34.4	31.7	26.0	22.0	23.7	185.5
Gramineous	181.0	177.7	169.7	163.0	166.2	207.4	249.7	201.1	191.8	336.8	86.1
Olives	2.0	15.0	22.0		86.0	427.0	1,784	2,871	1.7	3.3	65.0
Corneas	34.2	34.0	37.6	42.6	32.8	29.3	30.9	32.7	42.6	50.7	48.2
Other trees									60.4	75.3	24.7
Vegetables with fruits	22.9	25.2	30.9	22.1	15.6	19.6	23.9	32.1	32.2	25.3	10.5
Vegetables with leafs									5.6	5.7	1.8
Nuts	86.1	81.1	76.8	99.3	66.8	65.7	74.4	57.6			(33.1)
Tubers, seeds and roots	103.8	44.0	33.3	44.0	45.1	35.8	49.9	47.2	51.4	16.8	(83.8)

Table made by CAS based on Ministry of Agriculture (1998-2007) data

All vegetal products exports increased in value.

Table 3.7 – Vegetal products exports. Billion LBP during 1998-2007

Exoports	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Change. % (Last /first year)
Gramineous	0.3	1.4	1.2	0.4	2.9	5.6	5.4	1.9	0.6	5.8	1833.3
Vegetables	2.5	3.0	2.2	2.9	3.2	3.5	5.7	5.8	29.6	34.3	1272.0
Vegetables with fruits	2.4	2.9	3.7	2.5	3.5	3.8	6.0	4.6	6.8	7.1	195.8
Corneas	2.0	0.9	1.3	1.7	2.5	0.1	2.2	2.2	4.8	5.7	185.0
Other trees									1.8	3.1	72.2
Fruit trees	53.5	42.2	44.6	43.2	41.6	48.2	59.9	57.8	65.5	76.4	42.8
Vegetables with leafs									6.0	7.4	23.3
Tubers, seeds and roots	18.5	19.7	14.0	14.3	21.3	17.9	22.8	21.3	16.8	19.7	6.5
Olives	79.0	21.0	60.0	87.0	40.0	27.0	167.0	39.0	54.0	82.0	3.8

Table made by CAS based on Ministry of Agriculture (1998-2007) data

Agricultural census 1997-2007 – Animal products

All animal products production increased in value.

Table 3.8 – Animal products production. Billion LBP during 1997-2007

Production	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Change. % (Last /first year)
Eggs	45	48	49	52	53.3	49.3	55.8	61.9	56.9	77.1	125.7	179.3
Meat	72	71	70.7	60.2	58.4	68.1	77.4	85	87.6	84	116.8	62.2
Poultry	183	196	201.9	211.3	219	204.2	188.6	204.9	185.5	230.7	271.8	48.5
Milk & derivatives	135	129	135.8	129	124.3	123.3	137.7	130.3	138.6	151.1	192.7	42.7
Fish	45	39	38	59	59	59.6	54.6	53.4	57.2	47.3	60	33.3
Honey	20	31	30.3	23.8	19.1	16.5	20	21.9	25	18	22	10.0

Table made by CAS based on Ministry of Agriculture (1997-2007) data

All animal products imports witnessed an increase in value except for Honey (-36.3%).

Table 3.9 – Animal products imports. Billion LBP during 1997-2007

Imports	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Change. % (Last /first year)
Eggs	0.1		0.0		0.0	0.1	0.0	0.1	0.1	0.9	0.9	800.0
Canned fish							20.2	20.6	25.3	35.8	40.4	100.0
Red & white meat	276.8	258.4	231.9	231.8	257.2	291.2	348.2	353.2	314.1	345.5	359.6	29.9
Milk & derivatives	258.0	240.9	240.8	224.5	218.5	231.9	231.0	269.8	268.6	261.5	319.5	23.8
Fresh fish	62.2	66.7	66.7	62.2	78.9	66.3	46.3	53.6	57.5	57.6	68.7	10.5
Honey	2.2	2.0	1.9	0.8	0.7	0.7	0.7	1.0	0.8	0.8	1.4	(36.3)

Table made by CAS based on Ministry of Agriculture (1997-2007) data

All animal products witnessed an increase in exports in value during 1997-2007.

Table 3.10 – Animal products export. Billion LBP during 1997-2007

Exports	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Change. % (Last /first year)
Fresh fish	0.3	0.3	0.3	0.2	0.1	0.4	0.7	0.5	1.1	1.7	2.1	600.0
Eggs	1.2	0.7	0.3	0.6	0.1	1.8	1.8	1.7	2.0	2.2	7.1	491.7
Canned fish							0.4	0.4	0.4	0.7	2.0	400.0
Milk & derivatives	2.2	1.5	1.3	0.1	2.6	2.9	3.6	3.9	4.8	5.2	5.7	159.1
Red & white meat	0.8	1.1	0.9	0.3	0.3	1.7	3.5	1.9	2.0	4.9	1.3	62.5
Honey	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.3	

Table made by CAS based on Ministry of Agriculture (1997-2007) data