

Annex 2 Table 45 Per Capita Share of Lives Stock Products by Governates (Unit: Gr/day, Price: SP/kg by states for 1994

	Rural	Red Meat				White Meat				Eggs				Cheese				Milk			
		Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	
		Consumption	Prices s.p / kg.	Consumption	Prices s.p / kg.	Consumption	Prices s.p / kg.	Consumption	Prices s.p / kg.	Consumption	Prices s.p / dish	Consumption	Prices s.p / kg.	Consumption	Prices s.p / kg.	consumption	prices s.p / kg.	consumption	prices s.p / kg.	consumption	prices s.p / kg.
Damascus	first stage	16	280	20	280	20	60	21	60	13	90	33	90	9	65	22	65	39	16	37	16
	second stage	26	300	27	300	27	65	24	65	12	70	43	70	11	80	20	80	62	15	40	15
	third stage	19	300	27	300	34	70	33	70	22	75	29	75	11	85	14	85	57	16	44	16
Aleppo	first stage	20	240	39	240	26	65	30	65	26	90	22	90	12	60	29	60	60	13	46	13
	second stage	23	260	40	260	36	70	33	70	22	70	22	70	10	65	27	65	43	15	43	15
	third stage	26	260	38	260	41	75	25	75	33	79	20	79	13	70	30	70	15	17	46	17
Homs	first stage	19	250	24	250	37	65	37	65	27	85	28	85	10	65	16	65	68	14	52	14
	second stage	30	270	47	270	28	60	39	60	22	65	44	65	8	69	32	69	43	15	107	15
	third stage	10	280	31	280	37	70	31	70	26	75	15	75	12	70	20	70	45	16	89	16
Idleb	first stage	21	225	12	225	19	75	18	75	15	85	20	85	13	60	13	60	28	14	35	14
	second stage	25	250	24	250	24	65	18	65	30	70	19	70	22	965	12	965	79	15	55	15
	third stage	35	250	35	250	41	80	37	80	21	75	26	75	12	70	14	70	38	16	62	16
Lattakia	first stage	34	280	24	280	35	75	34	75	34	90	29	90	5	70	15	70	75	14	67	14
	second stage	23	290	9	290	21	65	48	65	19	75	27	75	19	75	15	75	23	14	71	14
	third stage	12	295	24	295	32	85	31	85	24	85	23	85	3	90	18	90	55	16	26	16
Sweida'	first stage	12	280	12	280	25	65	19	65	27	80	25	80	8	85	5	85	54	15	54	15
	second stage	15	300	16	300	43	70	20	70	27	75	25	75	8	90	3	90	68	15	28	15
	third stage	10	300	9	300	24	75	12	75	17	80	14	80	4.9	95	5	95	43	16	32	16
Alraqqa	first stage	26	230	21	230	35	70	23	70	16	90	23	90	3	60	13	60	20	15	11	15
	second stage	37	250	36	250	42	70	39	70	23	75	30	75	21	75	20	75	104	15	18	15
	third stage	27	240	33	240	69	75	16	75	12	80	30	80	30	80	17	80	52	16	14	16

Source: Study Carried out by the Agricultural Economics Dept., MAAR

Annex 2 Table 46 Eggs, Broiler and wool Average Growth Development (number and yield) 1980-1998																							
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	average growth 1980 to 1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	average growth 1990 to 1998	1999	
Egg production- Million	1332	1546	1684	1727	1804	1529	1692	1386	1650	1378	1520	0.38	1520	1611	1982	2026	2050	2060	2229	2273	2228	1997	4.90
No. of layers 000	8287	9328		9726		8538	9269	7955	9509	8988	9180	0.91	10	10	11	12	12	12	13	13	13	11.7	3.66
Chicken production eggs/year	161	166	166	178	179	179	183	174	174	153	171	-0.53	154	168	174	169	174	169	173	176	169	169.	1.19
Chicken meat production		55.1	72	75	80.5	79.9	77.7	64.3	61.3	49	58	-	na	na	na	na	na	na	na	na	na	na	na
Sheep production from wool	9.7	11.6	12.8	13.9	12.6	12.2	12.5	13.3	13.7	14.9	13	4.88	15.7	16.6	17.6	11.1	12.3	13.3	14.4	14.9	15	14.5	-0.57
Total sheep No.	9.3	10.5	11.4	13.3	12.7	11	11.7	12.7	13.7	14	12	4.65	14.5	15.2	14.7	10.1	11.2	12	13.1	13.8	15.4	13.3	0.76
Sheep production per sheep	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.0	1.0	1.1	1	0.22	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.09	-1.31

Source: Agricultural statistical abstract, MAAR

Annex 2 Table 47 Development of Eggs, Broiler and Wool Production and Yield

	1981	1982	1983	1984	1985	1986	1987	1988	1989	Average 1980- 1989	Growth rate 1980-1989	199 0	199 1	199 2	199 3	199 4	199 5	199 6	199 7	199 8	Average 1990-1998	Growth rate 1990- 1998	
Egg production Million	1332	1546	1684	1727	1804	1529	1692	1386	1650	1378	1520	0.38	152	161	198	202	205	206	222	227	222	1997.6	4.90
No. Of layer chicken 000	1980	9328	1013	9726	1007	8538	9269	7955	9509	8988	9180	0.91	10	10	11	12	12	12	13	13	13	11.77	3.66
Chicken production egg/year	161	166	166	178	179	179	183	174	174	153	171	-0.53	154	168	174	169	174	169	173	176	169	169.38	1.19
Chicken meat production		55.1	72	75	80.5	79.9	77.7	64.3	61.3	49	58	-12.70	na	na	na	na	na	na	na	na	na		
Sheep wool production	9.7	11.6	12.8	13.9	12.6	12.2	12.5	13.3	13.7	14.9	13	4.88	15.7	16.6	17.6	11.1	12.3	13.3	14.4	14.9	15	14.54	-0.57
Total sheep No.	9.3	10.5	11.4	13.3	12.7	11	11.7	12.7	13.7	14	12	4.65	14.5	15.2	14.7	10.1	11.2	12	13.1	13.8	15.4	13.33	0.76
Sheep production	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.0	1.0	1.1	1	0.22	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.09	-1.31

Source: Agricultural statistical abstract

Annex 2 Table 48 Total number of cows and their production 1989-1998**Number: head Production: million tons**

Year	Number				Milk & dairy products							
	Oxen	Calves	Females		Total	Total	Fresh Consumption	Ghee %4	Butter %6	Cheese %17	Yogurt	
			Milking	Non milking	Total	Cows						
1989	16205	24116	35126	19112	54238	79975	777427	41098	3139	1333	22376	14616
		5	0	8	8	8		2				6
1990	14264	22097	33056	22138	55195	78719	770688	39508	2873	1547	19157	16009
		3	6	8	4	1		3				2
1991	11856	22431	33292	20202	53495	77111	798814	39151	3225	1689	23242	15835
		0	9	3	2	8		3				0
1992	12577	22404	32888	19935	52824	76486	775785	39128	3433	1687	20205	11582
		9	2	8	0	6		4				2
1993	12454	21597	31632	16241	47873	70716	742153	38431	2823	1407	22181	14699
		5	3	6	9	8		7				2
1994	11511	22261	30395	18256	48651	72064	764126	38653	2697	2173	22620	15462
		7	1	7	8	6		7				8
1995	11866	19960	36665	19669	56335	77482	888838	45282	2862	766	25920	18156
		9	9	4	3	8		2				7
1996	12005	24400	37468	17945	55413	81015	934357	46482	4131.5	1531	28239	17463
		6	5	4	9	0		1				8
1997	12391	25525	39034	19910	58945	85709	1008719	51360	3475.7	1390	31270	21106
		3	6	7	3	7		9				6
1998	7266	28097	44806	19567	64373	93198	1118775	54241	4059	1733	36481	23436
		7	1	8	9	2		1				3

*Source: The annual agricultural statistical abstract of 1998***Annex 2 Table 49 Number and Production of Local Cows 1989-1998****Number: heads production: Ton**

Year	Oxen	Calves	Total number			Total Cows	Milk	Meat
			Females		Total			
			Milked	Non milked				
1989	8386	94285	110460	80930	191390	294061	76521	5480
1990	6896	68951	96493	94162	190655	266502	74773	5005
1991	5087	48996	78974	84865	163839	217922	63820	4116
1992	5505	50876	77587	81566	159153	215534	58127	3880
1993	7262	80644	72773	60665	133438	221344	61295	3958
1994	6554	75931	75344	68242	143586	226071	65140	4786
1995	6603	35800	101014	64264	165278	207681	61667	3796
1996	6492	62565	80666	53794	134460	203517	61748	3720
1997	6249	61861	67015	64766	131781	199891	55929	3311
1998	3950	73760	62236	40314	102550	180260	48124	3517

Source: The annual agricultural statistical abstract of 1998

Annex 2 Table 50 Shami cows number and production 1989-1998 Number: heads
production: tons

Year	Oxen	Calves	Total number			Total cows	Milk	Meat
			Females		Total			
			Milked	Non milked				
1989	872	17440	16276	5571	21847	40159	28055	1423
1990	847	19308	20923	8691	29614	49769	41570	2060
1991	187	6754	8127	3133	11260	18201	14924	701
1992	202	6164	6456	2331	8787	15153	13000	585
1993	78	2403	2959	2801	5760	8241	7435	358
1994	212	2848	2730	3040	5770	8830	8131	374
1995	284	1974	3655	3138	6793	9051	8155	449
1996	320	3145	4205	2181	6386	9851	8011	400
1997	325	3651	4626	2420	7046	11022	9270	423
1998	273	10847	10495	4216	14711	25831	20992	1234

Source: The annual agricultural statistical abstract of 1998

Annex 2 Table 51 Foreign cows number and production 1989-1998 Number: heads
production: tons

Year	Oxen	Calves	Females			Total Cows	Milk	Meat
			Females		Total			
			Milked	Non milked				
1989	2700	65694	112264	48019	160283	228677	422030	13702
1990	2461	64227	98876	57513	156389	223077	408755	14713
1991	2291	67979	106809	44788	151597	221867	403850	14247
1992	2660	66461	103706	43651	147357	216478	382919	11557
1993	1512	45396	79043	29067	108110	155018	305475	9854
1994	1274	46485	84532	34926	119458	167217	328857	10229
1995	1298	53972	92743	37722	130465	185735	367991	13408
1996	1531	54469	90500	39689	130189	186189	349982	14184
1997	1625	57449	100089	40653	140742	199816	385354	20603.3
1998	950	47536	91057	36091	127148	175634	346152	12128

Source: The annual agricultural statistical abstract of 1998

Annex 2 Table 52 Improved Cows Number and Production 1989-1998								
Number: heads production: tons								
Year	Oxen	Calves	Females			Total Cows	Milk	Meat
			Milked	Non milked	Total			
1989	4247	63746	112260	56608	168868	236861	250821	9789
1990	4060	68487	114274	61022	175296	247843	245590	10520
1991	4291	100581	139019	69237	208256	313128	316220	13556
1992	4210	100548	141133	71810	212943	317701	321739	12620
1993	3602	87532	161548	69883	231431	322565	367948	14477
1994	3471	97353	141345	76359	217704	318528	361998	15106
1995	3681	107863	169247	91570	260817	372361	451025	16206
1996	3662	123827	199314	83790	283104	410593	514616	21696
1997	4192	132292	218616	91268	309884	446368	558166	17468
1998	2093	148834	284273	115057	399330	550257	703507	26353

Source: The annual agricultural statistical abstract of 1998

Annex 2 Table 53 Number and Production of Sheep 1989-1998											
Number: head production: ton											
Year	Total	Milked	Un milked	Total	Milk & dairy products						
					Fresh Consum. ption.	Ghee %6	Butter %8	Cheese %20	Yogurt	Meat	Washed Wool
1989	14010514	8322741	5687773	438833	58166	8631	919	39189	48417	113248	14936
1990	14508608	8927718	5580890	497127	69222	9462	1776	42043	48344	113805	15698
1991	15193659	9498476	5695183	513219	62716	9897	1050	48236	53445	124336	16586
1992	14665086	9274674	5390412	512076	66213	9627	1061	48547	51841	113001	17571
1993	10146617	6396194	3750423	436713	87269	4818	2309	32313	90615	92125	11116
1994	11256623	7144327	4112296	395447	64385	6063	1696	36553	45043	120163	12291
1995	12075190	7819884	4255306	453843	67005	7713	1791	35478	48094	130732	13321
1996	13119498	8506611	4612887	498728	93958	6841	1039	42096	86420	142912	14472
1997	13829316	8980353	4848963	523755	82584	8538	1125	50241	56437	148353	14944
1998	15424717	10074419	5350298	581939	100655	7731	1585	54763	83789	154234	14954

Source: The annual agricultural statistical abstract of 1998

Year	Total Flocks	Producing Flocks	No. Of Births	Male Births	Female Births	Loss (births)	Loss (adults)	Emergency Slaughter
1989	14010514	9106834	7504031	3752016	1876008	938004	469002	280210
1990	14508608	9430595	7770810	3885405	3885405	777081	435258	290172
1991	15193659	9875878	8137724	4068862	4068862	813772	455810	303873
1992	14665086	9532306	7854620	3927310	3927310	785462	439953	293302
1993	10146617	6595301	5434528	2717264	2717264	543453	304399	202932
1994	11256623	7316805	6029047	3014524	3014524	602905	337699	225132
1995	12075190	7848874	6467472	3233736	3233736	646747	362256	241504
1996	13119498	8527674	7026803	3513402	3513402	702680	393585	262390
1997	13829316	8989055	7406982	3703491	3703491	740698	414879	276586
1998	15424717	10026066	8261478	4130739	4130739	826148	462742	308494

Source: The annual agricultural statistical abstract of 1998

Year	Total	Milked	Un milked	Total	Milk & dairy products				
					Fresh	Ghee 4%	Butter 7%	Cheese 20%	Others
1989	1011002	645374	365628	59612	18471	534	160	3481	8729
1990	999677	658568	341109	62819	19111	491	200	4036	8422
1991	962943	634263	328680	57611	18445	465	192	3345	8055
1992	951200	624297	326903	62247	20628	466	163	3491	9609
1993	985959	687194	298765	64341	20317	483	328	3604	8461
1994	1034946	703998	330948	66629	18114	425	182	4963	10639
1995	1062573	724351	338222	70903	21660	485	370	4114	10157
1996	1081875	745361	336514	74826	23046	426.16	324.59	4678.4	12202
1997	1100405	754024	346381	76790	24388	510.52	266.35	5012.6	13442
1998	1100983	770442	330541	78704	20879	459	198	6395	11544

Source: The annual agricultural statistical abstract of 1998

Annex 2 Table 14 Goats Number and Production 1989-1998 Number: heads

Year	Total	Shami		Mountain		Milk production tonne				
		Un milked	Milked	Un milked	Milked	Total	Shami	Mountain	Meat	Hair
1989	1011002	23429	35501	342199	609873	59612	10010	49602	6178	700
1990	999677	23962	41359	317147	617209	62819	9904	52915	5976	604
1991	962943	20517	40930	308163	593333	57611	10268	47343	4820	595
1992	951200	18431	35844	308472	588453	62247	10329	51918	4649	575
1993	985959	13152	25282	285613	661912	64341	7473	56868	5900	857
1994	1034946	14266	26143	316682	677855	66629	6924	59705	5355	653
1995	1062573	16666	32231	321556	692120	70903	10480	60423	5838	685
1996	1081875	18549	35203	317965	710158	74826	10510	64316	7375	706
1997	1100405	19360	35535	327021	718489	76790	10684	66106	5374	714.1
1998	1100983	14693	27338	315848	743104	78704	9122	69582	5888	1917

Source: The annual agricultural statistical abstract of 1998

Annex 2 Table 56 Livestock Holding According to Livestock Census of 1998

Governorate	Sheep						Cattle					Goat						
	No. Of holders	1-100	101-300	301-500	501-1000	> 1000	No. Of holders	1-5	5-10	11-15	> 15	No. Of holders	1-10	11-20	21-30	31-40	41-50	> 50
Total Hama	11767	9454	1832	315	132	34	17155	15875	1089	136	51	7454	6629	548	161	27	37	51
Total Homs	17786	7728	6115	2406	1218	319	26894	19967	5729	910	844	5922	3574	1325	564	135	203	121
Total Raqqa	21648	17504	3235	536	253	120	2424	2254	149	11	10	14984	13424	1174	259	51	36	40
Total Aleppo	37447	34405	2656	279	91	16	11643	10197	1055	226	165	26448	25084	1017	242	46	37	22
Total animals coming to alghab from other governorates	484	268	167	37	9	3	67	67	0	0	0	274	184	51	29	4	2	4
Total alghab without animals coming form other governorates	1691	1493	165	20	11	2	8613	8037	506	52	18	1437	1174	132	64	25	15	30
Total	90823	70852	14170	3593	1714	494	66796	56397	8528	1335	1088	56519	50069	4247	1319	288	330	268

Special study, Mulki Sameer

Annex 2 Table 57 Foreign Cows Indicators

Year	Total Herd	Producing Herd	No. Of Births	Male Births	Female Births	Loss (births)	Loss (young)	Loss (adults)
1989	228677	98331	73748	36874	36874	7375	1327	4574
1990	223077	95923	71942	35971	35971	7194	1295	4462
1991	221867	95403	71552	35776	35776	7155	1288	4437
1992	216478	93086	69814	34907	34907	6981	1257	4330
1993	155018	66658	49993	24997	24997	4999	900	3100
1994	167217	71903	53927	26964	26964	5393	971	3344
1995	185735	79866	59900	29950	29950	5990	1078	3715
1996	186189	80061	60046	30023	30023	6005	1081	3724
1997	199816	85921	64441	32220	32220	6444	1160	3996
1998	175634	75523	56642	28321	28321	5664	1020	3513

Annex 2 Table 58 Shami cows indicators

Year	Total Herd	Producing Herd	No. Of Births	Male Births	Female Births	Loss (births)	Loss (young)	Loss (adults)
1989	40159	16064	11245	5622	5622	1124	202	803
1990	49769	19908	13935	6968	6968	1394	251	995
1991	18201	7280	5096	2548	2548	510	92	364
1992	15153	6061	4243	2121	2121	424	76	303
1993	8241	3296	2307	1154	1154	231	42	165
1994	8830	3532	2472	1236	1236	247	45	177
1995	9051	3620	2534	1267	1267	253	46	181
1996	9851	3940	2758	1379	1379	276	50	197
1997	11022	4409	3086	1543	1543	309	56	220
1998	25831	10332	7233	3616	3616	723	130	517
Local cows indicators								
Year	Total Herd	Producing Herd	No. Of Births	Male Births	Female Births	Loss (births)	Loss (young)	Loss (adults)
1989	294061	88218	48520	24260	24260	4852	873	5881
1990	266502	79951	43973	21986	21986	4397	792	5330
1991	217922	65377	35957	17979	17979	3596	647	4358
1992	215534	64660	35563	17782	17782	3556	640	4311
1993	221344	66403	36522	18261	18261	3652	657	4427
1994	226071	67821	37302	18651	18651	3730	671	4521
1995	207681	62304	34267	17134	17134	3427	617	4154
1996	203517	61055	33580	16790	16790	3358	604	4070
1997	199891	59967	32982	16491	16491	3298	594	3998
1998	180260	54078	29743	14871	14871	2974	535	3605
Improved cows indicators								
Year	Total Herd	Producing Herd	No. Of Births	Male Births	Female Births	Loss (births)	Loss (young)	Loss (adults)
1989	236861	94744	66321	33161	33161	6632	1194	4737
1990	247843	99137	69396	34698	34698	6940	1249	4957
1991	313128	125251	87676	43838	43838	8768	1578	6263
1992	317701	127080	88956	44478	44478	8896	1601	6354
1993	322565	129026	90318	45159	45159	9032	1626	6451
1994	318528	127411	89188	44594	44594	8919	1605	6371
1995	372361	148944	104261	52131	52131	10426	1877	7447
1996	410593	164237	114966	57483	57483	11497	2069	8212
1997	446368	178547	124983	62492	62492	12498	2250	8927
1998	550257	220103	154072	77036	77036	15407	2773	11005

Year	Total Herd	Producing Herd	No. Of Births	Male Births	Female Births	Loss (births)	Loss (young)	Loss (adults)
1989	799758	297357	199834	99917	99917	19983	3597	15995
1990	787191	294919	199247	99623	99623	19925	3586	15744
1991	771118	293311	200281	100141	100141	20028	3605	15422
1992	764866	290887	198576	99288	99288	19858	3574	15297
1993	707168	265383	179141	89570	89570	17914	3225	14143
1994	720646	270668	182889	91445	91445	18289	3292	14413
1995	774828	294735	200962	100481	100481	20096	3617	15497
1996	810150	309294	211351	105675	105675	21135	3804	16203
1997	857097	328844	225492	112746	112746	22549	4059	17142
1998	931982	360036	247690	123845	123845	24769	4458	18640

Year	Total Herd	Producing Herd	Live births Rates	No. Of Births	Loss (births)	Loss (adults)	Emergency Slaughter
1989	58930	38305	30644	52094	10419	2947	2947
1990	65321	42459	33967	57744	11549	3266	3266
1991	61447	39941	31952	54319	10864	3072	3072
1992	54275	35279	28223	47979	9596	2714	2714
1993	38434	24982	19986	33976	6795	1922	1922
1994	40409	26266	21013	35722	7144	2020	2020
1995	48897	31783	25426	43225	8645	2445	2445
1996	53752	34939	27951	47517	9503	2688	2688
1997	54895	35682	28545	48527	9705	2745	2745
1998	42031	27320	21856	37155	7431	2102	2102
Mountain goats indicators							
Year	Total Herd	Producing Herd	Live births Rates	No. Of Births	Loss (births)	Loss (adults)	Emergency Slaughter
1989	952072	647409	453186	498505	74776	28562	47604
1990	934356	635362	444753	489229	73384	28031	46718
1991	901496	613017	429112	472023	70803	27045	45075
1992	896925	609909	426936	469630	70444	26908	44846
1993	947525	644317	451022	496124	74419	28426	47376
1994	994537	676285	473400	520740	78111	29836	49727
1995	1013676	689300	482510	530761	79614	30410	50684
1996	1028123	699124	489387	538325	80749	30844	51406
1997	1045510	710947	497663	547429	82114	31365	52276
1998	1058952	720087	504061	554467	83170	31769	52948

Source: The annual agricultural statistical abstract of 1998

Annex 2 Table 61 Total Goats Indicators							
Year	Total Herd	Producing Herd	Live births Rates	No. Of Births	Loss (births)	Loss (adults)	Emergency Slaughter
1989	1011002	685713	483830	550599	85195	31509	50550
1990	999677	677821	478720	546973	84933	31297	49984
1991	962943	652958	461065	526342	81667	30117	48147
1992	951200	645188	455159	517609	80040	29622	47560
1993	985959	669299	471008	530100	81214	30347	49298
1994	1034946	702551	494412	556461	85255	31857	51747
1995	1062573	721083	507936	573986	88259	32855	53129
1996	1081875	734062	517338	585842	90252	33531	54094
1997	1100405	746629	526208	595956	91820	34110	55020
1998	1100983		525917	591623	90601	33870	55049

Source: The annual agricultural statistical abstract of 1998

Annex 2 Table 62 Poultry Products								
Year	Egg layers (000)				Table eggs (000)		Broiler production Ton	
	Poultry farms		Domestic		Total	Producing	Broiler farms	Meat
	Total	Producing	Total	Producing				
1989	7310	5309	6324	3679	1026681	351123	38147	10879
1990	7218	5280	6697	4036	1044705	385407	49184	10587
1991	7481	5373	7305	4200	1024813	406079	51517	9811
1992	9444	6895	8069	4485	1546236	435479	71791	11449
1993	9078	6368	8095	5673	1269283	568859	65279	11617
1994	9909	6788	8573	5001	1399784	489960	64563	10741
1995	9763	6956	8983	5298	1353572	518739	75279	10086
1996	10573	7477	9239	5452	1478506	561693	69039	12782
1997	10585	7624	9340	5252	1547920	524513	78804	12484
1998	10956	7929	9465	5252	1537587	530474	82976	14267

Source: The annual agricultural statistical abstract of 1998

Annex 2 Table 63 Poultry Parents Farms, Eggs and Chicks Production

Year	No. Of broiler farm		Poultry parents farms		Parents no. (000)			Boiler hatching Chicks (000)	Broiler (000)
	Licensed	Unlicensed	Licensed	Unlicensed	Total	Producing	Eggs (000)		
1989	2694	49	44	0	455	333	55180	34410	
1990	2780	56	46	0	737	501	73514	42127	
1991	2758	74	70	0	850	588	91409	48112	
1992	2747	120	64	0	1067	776	124637	67123	
1993	2871	180	73	0	1190	839	159777	85296	
1994	3043	212	80	0	1094	775	145152	75499	
1995	3077	295	100	7	1450	1018	162944	103839	
1996	3462	370	95	4	1422	1011	156122	91245	
1997	3374	486	111	5	1398	1020	168926	105642	
1998	3414	626	70	4	1244	884	133350	85796	

Source: The annual agricultural statistical abstract of 1998

Annex 2 Table 64 Total Milk, Wool, Meat and Hair Production tonne

Year	Milk				Meat				Washed Wool	Hair Production
	Cattle	Sheep	Goats	Total	Cattle	Sheep	Goats	Total		
1989	777427	438833	59612	127587	30394	113248	6178	149820	14936	700
1990	770688	497127	62819	133063	32298	113805	5976	152079	15698	604
1991	798814	513219	57611	136964	32620	124336	4820	161776	16586	595
1992	775785	512076	62247	135010	28642	113001	4649	146292	17571	575
1993	742153	436713	64341	124320	28647	92125	5900	126672	11116	857
1994	764126	395447	66629	122620	30495	120163	5355	156013	12291	653
1995	888838	453843	70903	141358	33859	130732	5838	170429	13321	685
1996	934357	498728	74826	150791	40000	142912	7375	190287	14472	706
1997	100871	523755	76790	160926	41805	148353	5374	195532	14944	714
1998	111877	581939	78704	177941	43232	154234	5888	203354	14954	1917

Year	Milk				Meat			
	Cattle	Sheep	Goats	Total	Cattle	Sheep	Goats	Total
1989-1991	78	48	6	133	3	12	1	15
1990-1992	78	51	6	135	3	12	1	15
1991-1993	77	49	6	132	3	11	1	14
1992-1994	76	45	6	127	3	11	1	14
1993-1995	80	43	7	129	3	11	1	15
1994-1996	86	45	7	138	3	13	1	17
1995-1997	94	49	7	151	4	14	1	19
1996-1998	102	53	8	163	4	15	1	20

Description	Value SP	Details
1- Costs cows depreciation	10000	Cow purchase value <u>6000</u> Cow's economic age <u>6</u>
Barn depreciation	600	Barn area x square meter value <u>6 x 2000</u> Economic age of the barn <u>20</u>
Stores depreciation	300	Stores area x square meter value <u>3 x 2000</u> Stores economic age <u>20</u>
Labor costs	1080	Monthly labourer's wage x no. of months <u>4500 x 12</u> No. of cows served by each worker <u>50</u>
Fodder value concentrates	17793.7	6.5 kg. x 7.5 SP x 365 Concentrated fodder per day x 356 days x kg. value

green	7300	20 kg. x 1 SP x 365
other fodder	7665	Green fodder per day x 365 days x kg. value 6 kg. x 3.5 SP x 365 fodder per day x 365 x kg. value
Drink water & electricity	299.3	14965 x 2% 2% of the dry + green ration value
Mineral salt value	540	Quantity needed per year x kg. value
Veterinarian care	1200	Vet. wage per month x months 5000x12 <hr/> No. of cows per vet. 50
Vet. medicines value	3000	2% of the cow value
Losses & injuries	1200	2% of the cow value
Other expenditures	1200	2% of the cow value
Total of item (1)	52178	

- barn area means the area needed per head
- stores area means the area needed per head
- mineral salts value represents 2% of the dry ration weight x 365 days x kg. value
- assuming that each worker takes care of 50 heads
- these calculations have been made according to the estimates of the General Establishment for Cattle and the Department of Agricultural Economics forms. Figures have been derived from a previous study

Description	Value SP	Details
2- Revenue value of a newly born cow	3000	Calculated at the age of 7 days on the basis of 7% of the cow value after deducting 10% for the loss caused by death
Dung and guts value	1500	1% of the cow value $5 \text{ m}^3 \times 300$
Value of meat	3750	Half of the cow value ----- economic age of the cow cow value x 3.7% 60000×3.7 ----- = ----- = 3750 economic age 6
Total of item (2)	8250	

Net costs = costs – revenue

$52178 - 8250 = 43928$

annual dairy milk production = 4200 kg

dairy milk cost of production farm gate = $\frac{\text{net cost}}{\text{annual production}} = \frac{43928}{4200} = 10.4$ SP/kg.

Annex 2 Table 67 Cost of Egg Production		
Description	Value SP	Details
Hen production Coop depreciation	4	Coop area 1000 x 2000 ----- x square meter value ----- 10000 x 2.5 10000 x 2.5 ----- economic age of the coop 20
Stores depreciation	0.4	Store area 100 x 2000 ----- x square meter value ----- 10000 x 2.5 10000 x 2.5 ----- economic age of the store 20
* Tools & equipment depreciation	0.08	Tools & equipment * 42000 ----- 10000 x 2.5 1000 x 2.5 ----- economic age of tools and equip. 20
Maintenance and spare parts	2.24	50% of the total depreciation 4.48 x 50%
Preparation costs	0.67	15% of the total depreciation 4.48 x 15%
Layer chick value	40	
Sawdust value	0.4	No. of bags in one round x value 200 x 70 ----- 10000 10000
value of processed fodder	86.67	8.10 kg. x kg value 8.10 x 10.7
Heating, lighting and drink water	16	40% of the chick value
Vaccines & medicines	20	50% of the chick value
Labourer and supervisor's wages	4.8	Monthly wage of labourer and supervisor x 4 months ----- 10 000 12000 x 4 ----- 10 000
Other expenditures	8	20% of the chick value
Total cost	184.26	
Death & injuries	12.9	7% of the total cost
Total cost of a layer hen	197.15	

Note:

- The figure 10000 refers to the number of hens kept in the coop at the rate of 10 hens / m²
- The figure 2.5 refers to the number of breeding cycles per year (5 months for each breeding cycle)
- * tools & equipment
- water containers (no. 40 x price 600) = 24000
- food containers (no. 60 x price 300) = 18000
- total 42000
- assuming that there is no need for a mixer because the feed is processed
- **value of processed feed:
- value price SP
- maize 30% 0.3 x 7 = 2.1
- barley 40% 0.4 x 6 = 2.4

-	super 10%	0.1 x 30	= 3
-	soybeans 20%	0.2 x 16	= 3.2
	-----		10.7

Annex 2 Table 68 Cost of Eggs Production (cont)		
Description	Value SP	Details
Eggs production cost Coop depreciation	12.5	Coop area 1250 x 2000 ----- x square meter value ----- 10000 10000 ----- economic age of the coop 20
Stores depreciation	1	Store area 100 x 2000 ----- x square meter value ----- 10000 x 2.5 1000 x 2.5 ----- economic age of the store 20
* Tools & equipment depreciation	0.36	Tools & equipment * 42000 ----- 10000 10000 ----- economic age of tools & equipment. 20
Maintenance and spare parts	6.93	50% of the total depreciation 13.86 x 50%
Preparation costs	2.08	15% of the total depreciation 13.86 x 15%
Layer hen value	197.15	Taken from the first period cost (hen cost)
Heating, lighting and drink water	5.9	3% of the hen cost
Value of operation electricity	5.9	3% of the hen cost
Fodder value	472.50	47.250 kg. x kg. price (10)
Vaccines & medicines	59	30% of the hen cost
Labourer and supervisor's wages	14.4	2 labourers per month x 12 months 2 x 6000 x 12 ----- 10 000 10 000
Picks trimming and injections	3.9	2% of the hen value
Total cost	781.62	
Death & injuries	91.05	12% of the total production costs (death) 2% of the total production costs (injuries) 758.75**
Total cost	887.84	

Note:

- The figure 10000 refers to the number of parents kept in the coop at the rate of 10 hens / m²
- Eggs production period is 12 months at the average of 220 eggs/180 days which is the production season period.
- * tools & equipment
- water containers (no. 40 x price 600) = 24000
- food containers (no. 60 x price 300) = 18000
- eggs machines (no. 30 x price 1000) = 30000
- total 72000
- ** Production period starts from the raw including the hen value

Annex 2 Table 69 Boiler Cost of Production

Description	Value SP	Details
Coop depreciation	19.23	Coop area 500 x 2000 ----- x square meter value ----- 5000 x 5.2 5000 x 5.2 ----- economic age of the coop 20
Stores depreciation	0.38	Store area 100 x 2000 ----- x square meter value ----- 5000 x 5.2 5000 x 5.2 ----- economic age of the store 20
* Tools & equipment depreciation	0.08	Tools & equipment * 42000 ----- 5000 x 5.2 5000 x 5.2 ----- economic age of tools and equipment. 20
Maintenance and spare parts	9.85	50% of the total depreciation 19.69 x 50%
Preparation costs	2.15	15% of the total depreciation
Broiler chick value	16	Average price ranges between 8-30 SP
Sawdust value	0.98	No. of bags in one round x value 70 x 70 ----- 5000 5000
Value of processed fodder	46	4 kg. per bird x kg. value 4 x 11.5
Heating, lighting and drink water	4	25% of the chicks value
Vaccines & medicines	4.8	30% of the chicks value
Labourer and supervisor's wages	2.4	Labourer's and supervisor's wage per month x 2 months ----- 10 000 6000 x 2 ----- 10 000
Other costs	1.6	10% of the chicks value
Total cost	108.27	
Death & injuries	6.50	6% of the total cost
Total cost	114.77	

Note:

- * tools & equipment
 - water containers (no. 40 x price 600) = 24000
 - food containers (no. 60 x price 300) = 18000
 - total 42000
 - Assuming that there is no need for a mixer because feed is processed
 - ** value of processed feed:
- | | value | price SP |
|--|-------|----------|
|--|-------|----------|

	11.5
Average bird weight	1.8
Average cost per kg.	63.75

Notes:

- 1- 5000 refers to the number of birds kept on a typical coop
- 2- store area 100 m²
- 3- 5.2 refers to the breeding cycles per year
- 4- average weight per bird 1.350-1.500 kg. during the fattening period

Annex 2 Table 70 General Establishment for Poultry Production Capacity (1999)															
Gov.	Broiler			Layers			Broiler parents			Layers parents			Hatcheries		
	No.	Annual capacity (000)	000 birds /cycle	No.	Annual capacity (million eggs)	000 birds /cycle	No.	Annual capacity (million broiler chicks)	000 birds /cycle	No.	Annual capacity (million chicks)	000 birds /cycle	No.	Annual capacity (000 eggs)	Type of breeding
Total	7	4620	1097	10	641	642	3	15.5	48	3	3.4	30	5	672	Layers parents
														1344	Broiler s parents

Annex 2 Table 71 Sheep Production Indicators	
	Percentage or weight
Producing herd percentage	65%
Births percentage	80% of the producing herd
Live births per 100 heads	103%
Births mortality rate	10%
Adult mortality rate	3% of the total
Emergency slaughter percentage	2% of the total
Replacement percentage	20% of the producing herd
Sheep weight at the beginning of fattening period (kg)	18-23
Fattened sheep weight (kg)	35
Average milk production per head (kg)	60
Imported fattened sheep (kg)	35
Washed wool (kg)	1.2
Growth rate	6%

Annex 2 Table 72 Goat Production Indicators		
	Shami goats	Mountain goats
Producing herd percentage	65%	61%
Births percentage	80%	70%
Live births per 100 heads	170%	110%
Births mortality rate	20%	15%
Adult mortality rate	5%	3%
Emergency slaughter percentage	5% of the total	3%
Replacement percentage	20% of the total	20% of the total
Goats weight at the beginning of fattening period (kg)	10	8
Fattened males weight (kg)	35	30
Average milk production per head (kg)	400	80
Washed hair (kg)	1.5	2
Growth rate	112%	102%

Annex 2 Table 73 Cattle Production Indicators			
Description	Foreign	Shami	Local
Producing herd percentage	43%	40%	30%
Live births per 100 heads	75%	70%	55%
Births mortality rate	12%	2%	2%
Adult mortality rate	12%	2%	2%
Replacement percentage of the producing herd	20%	20%	20%
Average milk production per head	4250	3050	750
Average slaughter weight			
Fattened calves weight (kg)	225	250	80
Excluded cows weight (kg)	250	200	200
Growth rate	5%	3%	1%

Description	Crossed	First generation	Second generation
Producing herd percentage	40%	40%	40%
Live births per 100 heads	70%	70%	70%
Births mortality rate	10%	10%	10%
Adult mortality rate	2%	2%	2%
Replacement percentage of the producing herd	20%	20%	20%
Average milk production per head	2500	1800	2500
Average slaughter weight			
Fattened calves weight (kg)	175	150	175
Excluded cows weight (kg)	225	200	225
Growth rate	3%	3%	4%

Annex 2 Table 74 Cost of Milk Production - Australia 1997/98

	NSW (mostly liquid/market milk, irrigation)	Victoria (mostly manufacturing milk market, rainfed)
Milking cows (head)	132	170
Total production (litres)	645,000	800,000
Income		
Milk (AUD\$)	222,000	182,000
Sale of animals	29,000	22,000
Total Income	251,000	204,000
Costs		
Feed costs	66,300	49,660
Livestock costs	14,060	11,630
Machinery, fuel, contractors	33610	29,510
	113,970	90,800
Gross Margin	143,030	118,200
Overhead costs		
Rates	5080	8470
Other services	27210	20000
Hired labour	17550	16410
Imputed Cost		
Depreciation	18500	19940
Owner labour	43300	39520
Capital	1,450,000	1,080,000
Debt	181,000	220,000

Source Australian Dairy Research Corporation - field surveys

ANNEX 3

Annex 3 Table 75 Quantities Produced and Marketed by General Establishment of Fodder (unit: ton)

Item	1985	1990	1995	1996	1997	1998	
Maize	Production	80214	179999	198782	250000	303260	285009
	Marketed	53403	113238	77500	75578	154870	117880
	Marketed (%)	66.58	62.91	38.99	30.23	51.07	41.36
Soybean	Production	-	10778	11247	9364	6185	7233
	Marketed	-	5699	9724	7690	1808	6495
	Marketed (%)	-	52.9	86.5	82.1	29.2	89.8
Barley	Production	740219	846178	1705142	1653018	982654	868848
	Marketed	67234	74636	73394	8232	52590	60364
	Marketed (%)	9.08	8.82	4.30	0.50	5.35	6.95
Cotton seed cake	Production	82973	51526	88679	77872	71522	59313
Cotton peel	Marketed	30649	14138	51612	56747	59082	75341
Bran	Marketed (%)	331475	342256	465965	536911	543080	484211

Annex 3 Table 76 Cereals Delivered and Sold By the General Establishment for								
		1985	1990	1995	1996	1997	1998	total
Maize	Delivered	53403	113238	77500	75578	154870	117880	592469
	Sold	208442	31513	66089	60960	30058	31465	428527
	% marketed	390.32	27.83	85.28	80.66	19.41	26.69	72.33
Sovbea	Delivered		5699	9724	7690	1808	6495	31416
	Sold							0
	% marketed							0
Barlev	Delivered	178555	74427	137210	64645	103328	52613	610778
	Sold	67234	74636	73394	8232	52590	60364	336450
	% marketed	37.65	100.28	53.49	12.73	50.90	114.73	55.09
Cotton	Delivered	12662	101482	114848	115710	126015	130607	601324
	Sold	82973	51526	88679	77872	71522	59313	431885
	% marketed	655.29	50.77	77.21	67.30	56.76	45.41	71.82
Cotton	Delivered	50060	25457	54532	59921	67728	68287	325985
	Sold	30649	14138	51612	56747	59082	75341	287569
	% marketed	61.22	55.54	94.65	94.70	87.23	110.33	88.22
Bran	Delivered	331475	342256	465965	536911	543080	484211	2703898
	Sold	280057	201541	384676	469798	423891	330674	2090637
	% marketed	84.5	58.9	82.6	87.5	78.1	68.3	77.3

Annex 3 Table 77 Purchase and Sale Prices for Major Fodder Commodities by General Establishment for Fodder (unit: SP/kg)

Item		Maize	Bran	Barley	Cotton cake		Cotton seed peel	Soybean cake	Milk cattle ready fodder		Condensed fodder	Sheep ready fodder (fattening)
					Scaled	Non			Chicken	Layer		
1986	Purchase price	2250	420	1470	1250	1050	600					
	Sale price	2567	520	1550	1412	1262	765	5395	3865	5000	4700	
	Profit margin %	14	24	5	13	20	28					
1990	Purchase price	7000	5000	8450	7300	5500	2500	na	na			
	Sale price	8200	5500	9000	7900	6000	3000	15000	9000	22600	2000	
	Profit margin %	17	10	7	8	9	20				0	
1995	Purchase price	7000	3300	7000	7300	5500	2500	16000	6340			
	Sale price	8200	3700	9000	8810	6000	3000	16500	7100			
	Profit margin %	17	12	29	21	9	20	3	12			
1996	Purchase price	9000	3300	8450	8210	6410	3410	16000	6340			
	Sale price	11250	3700	9000	8810	6910	3910	16700	7100			
	Profit margin %	25	12	7	7	8	15	4	12			
1997	Purchase price	9000	3300	8450	8210	6410	3410	18000	6700			
	Sale price	11250	3700	9000	8810	6910	3910	16100	7500			
	Profit margin %	25	12	7	7	8	15	-11	12			
1998	Purchase price	9000	3300	8450	8210	6410	3410	16000	6800			6460
	Sale price	10400	4750	7000	8810	6910	3910	18300	7575			7100
	Profit margin %	16	44	-17	7	8	15	14	11			10
1999	Purchase price	9000	3300	8450	8210	6410	3410	na	na			6460
2000	Sale price	8500	4750	7000	7000	6910	3910	na	na			7100
2001	Profit margin %	-6	44	-17	-15	8	15					10

Source: General Establishment for Fodder

Annex 3 Table 78 Private Sector Imported Feed											
Year	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Maize	13847	25500	24809	15532	372197	36047	41155	31651	52259	52877	66670
	1	9	9	8		0	7	0	8	5	
Soya husk	34771	64894	74885	11774	110388	20172	10476	12022	10715	17441	19100
				9		1	2	8	6	3	6
barley		10184	20833	51615							70285
		5	5								6
meat	1633	7003	16136	17905	29680	21302	25285	22960	10362	4086	2615
fish	696	483	1375	956	5026	2316	3023	3679	4160	11025	11329
fodder	1203	561	959	1117	2942	2252	4302	4515	5839	15355	14355
supplementar y											
poultry	27439	27893	27015	19899	37920	21831	32120	30469	21192	4661	1724
concentrates											
Cakes	675				5005		16228		3087	17555	9450
bran & lentil cakes		500									
wheat bran											16822
Total	20488	45768	57680	36456	563158	60989	59727	49836	67439	75587	
	8	8	4	9		2	7	1	4	0	

Source: General Establishment for Fodder

	Maize 1999	Barley 1999	Maize 1998
Normal	591071	555720	459597
Iraqi	27924	146895	69158
Law no. 10	22775		
Total	641770	702615	528755

Annex 3 Table 79 Feed Grains, Oilseed and Oilseed Meal Prices, 1989 to 1999 (US \$/tonne)					
Year	US No 2 Yellow Corn	US No 2 Barley	Soybeans	Soybean Meal ⁷	Cotton Seed Cake
1989	111	123	247	204	122
1990	107	116	241	198	119
1991	110	122	237	203	122
1992	98	115	246	207	124
1993	115	112	259	202	121
1994	105	119	248	184	110
1995	160	167	303	256	154
1996	132	138	297	278	167
1997	112	118	258	197	118
1998	95	96	207	182	109
1999	93	99			

Source: 1999 Australian Bureau of Agricultural and Resource Economics - Australian Commodity Statistics, sourced from International Grains Council Market Report, London; US Dept of Agriculture, Economic Research Service Oilseeds: World Markets and Trade.

Annex 3 Table 80 Sale Prices for Major Fodder commodities by General Establishment for Fodder (US \$/tonne)						
Commodity	1990	1995	1996	1997	1998	1999
Barley	184	152	184	184	184	184
Maize	152	152	196	196	196	196
Soybean Cake	326	348	348	391	348	
Cotton Seed Cake	159	159	178	178	178	178
Bran	109	72	72	72	72	72

⁷ Cottonseed meal trades at about 60 percent of soybean meal
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Annex 3 Table 81 Nominal Protection Coefficients for Selected Feed Ingredients, 1990 -99

Commodity	1990	1995	1996	1997	1998	1999
Barley	1.38	1.14	1.24	1.43	1.84	1.69
Maize	1.30	0.89	1.38	1.60	1.87	1.90
Cotton seed Cake	1.23	0.96	1.00	1.39	1.49	na
Soya bean cake	1.56	1.30	1.21	1.98	1.81	na

Annex 3 Table 82 General Establishment of Fodder - Feed Prices, SP/kg, 1985 - 1998

	1985	1990	1995	1996	1997	1998
Barley	1.6	8.1	7.75	7.25	8.3	8.15
Maize	4.2	9.6	9.5	10.7	11	10.6
Sorghum	-	10.6	10.20	12.0	14.4	15.4

Source: MAAR - Department of Agricultural Economics

ANNEX 4

Annex 4 Table 83 Sheep Foreign Trade 1985-1998							
Years	Import			Export			
	1000. (Head)	Value (Million SP)	Price/Head CIF	1000. (Head)	Value (Million SP)	Price/Head FOB	Trade Balance
1985	568	110	193	168	92	548	18
1990	501	421	841	807	2365	2930	-1944
1991	1114	787	706	1190	132	111	655
1992	2351	307	130	1173	1205	1028	-899
1993	2351	1298	552	1045	927	887	371
1994	1950	977	501	806	605	751	372
1995	1087	593	546	901	457	507	136
1996	1215	685	564	524	990	1889	-305
1997	844	384	454	451	515	1143	-131
1998	406	199	491	686	548	799	-349

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 84 Cattle Foreign Trade 1985-1998					
Years	Import			Export	
	1000. (Head)	Value (Million SP)	Price/Head CIF	1000. (Head)	Trade Balance Million SP
1985	1	2	1841	0	2
1990	1	14	16195	0	14
1991	4	22	5244	0	22
1992	5	24	4839	0	24
1993	7	48	6794	0	48
1994	19	55	2962	0	55
1995	2	6	3658	0	6
1996	6	5	904	0	5
1997	2	6	4106	0	6
1998	0	1	3390	0	1

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 85 Goats Foreign Trade 1985-1998					
Years	Import	Export			
	Value (Million SP)	1000. (Head)	Value (Million SP)	Price/Head FOB	Trade Balance Million SP
1985	0	50	13	259	-13
1990	0	196	191	975	-191
1991	0	316	199	630	-199
1992	0	86	54	630	-54
1993	3	132	77	587	-4
1994	0	164	95	577	-95
1995	0	55	31	555	-31
1996	1	65	71	1085	-70
1997	0	33	21	652	-21
1998	0	2	1	407	-1

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 86 Poultry meat foreign trade 1985-1998			
Years	Import	Export	
	Value (Million SP)	Value (Million SP)	Trade Balance Million SP
1985	11	0	11
1990	32	25	7
1991	27	51	-24
1992	35	43	-8
1993	24	46	-22
1994	37	50	-13
1995	17	40	-23
1996	23	7	16
1997	23	7	16
1998	30	7	23

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 87 Powder Milk Foreign Trade 1985-1998				
Years	Import		Export	
	Value (Million SP)		Value (Million SP)	Trade Balance Million SP
1985	92		0.	92
1990	57		0	57
1991	102		0	102
1992	43		0	43
1993	166		0	166
1994	195		0	195
1995	194		1	193
1996	250		0	250
1997	393		0	393
1998	350		0	350

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 88 Butter Foreign Trade 1985-1998				
Years	Import		Export	
	Value (Million SP)	Price CIF/tonne SP	Value (Million SP)	Trade Balance Million SP
1985	42	5437	0	42
1990	29	23445	0	29
1991	10	18305	0	10
1992	26	21731	0	26
1993	41	19983	0	41
1994	41	19396	1	40
1995	37	26230	1	36
1996	48	25273	4	44
1997	26	21268	3	23
1998	41	23269	2	39

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 89 Kashkawan Cheese Foreign Trade 1985-1998							
Years	Import			Export			
	Quantity (Ton)	Value (Million SP)	Price/Ton CIF	Quantity 1000 (Ton)	Value (Million SP)	Price/ton FOB	Trade Balance Million SP
1985	5	0	11	0	0	0	0
1990	28	1	32	0	0	0	1
1991	6	0	28	5	0	85	0
1992	8	0	38	0	0	0	0
1993	36	2	64	0	0	0	2
1994	37	3	80	0	0	0	3
1995	7	2	275	0	0	0	2
1996	2	0	244	46	2	38	-2
1997	7	0	19	55	2	32	-2
1998	4	0	14	216	2	10	-2

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 90 Animal Ghee Foreign Trade 1985-1998							
Years	Import			Export			
	Quantity (Ton)	Value (Million SP)	Price/Ton CIF	Quantity 1000 (Ton)	Value (Million SP)	Price/ton FOB	Trade Balance Million SP
1990	842	16	19	0	0	0	16
1991	2230	45	20	94	6	69	39
1992	3542	82	23	161	6	37	76
1993	7871	159	20	329	14	43	145
1994	4640	100	21	235	11	47	89
1995	4088	99	24	170	9	54	90
1996	3825	100	26	133	9	67	91
1997	5152	117	23	161	11	68	106
1998	309	73	238	71	4	62	69

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 91 Eggs Foreign Trade 1985-1998							
Years	Import			Export			
	Quantity (Ton)	Value (Million SP)	Price/Ton CIF SP	Quantity 1000 (Ton)	Value (Million SP)	Price/Ton FOB	Trade Balance Million SP
1985	0	0	39	0	0		0
1990	0	0	371	5	50	11	-50
1991	0	1	270	4	35	9	-34
1992	0	0	125	4	35	10	-35
1993	0	1	446	5	67	14	-66
1994	0	0		4	81	22	-81
1995	0	0	567	0	10	29	-10
1996	0	0		2	29	12	-29
1997	0	3	105	4	27	7	-24
1998	0	1	314	4	33	9	-32

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 92 Washed Wool Foreign Trade 1985-1998							
Years	Import			Export			
	Quantity 1000(Ton)	Value (Million SP)	Price/Ton CIF SP	Quantity 1000(Ton)	Value (Million SP)	Price/tonne FOB	Trade Balance Million SP
1985	1	15	11	0	1	4	14
1990	0	5	56	2	24	14	-9
1991	0	13	49	2	25	12	-12
1992	0	18	42	1	12	9	6
1993	0	11	38	2	14	7	-3
1994	1	30	30	2	14	7	16
1995	1	22	39	2	12	8	10
1996	0	2	66	2	12	7	-10
1997	0	0	0	2	12	8	-12
1998	0	0	0	1	9	8	-9

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 93 Barley Foreign Trade 1985-1998							
Years	Import			Export			
	Quantity (Ton)	Value (Million SP)	Price/Ton CIF SP	Quantity (Ton)	Value (Million SP)	Price/Ton FOB	Trade Balance Million SP
1985	143570	154	1074.51	0	0		154
1990	106471	210	1977.52	10382	14	1343.67	196
1991	198578	318	1599.72	0	0		318
1992	82157	65	791.27	0	0		65
1993	0	0		156490	155	990.96	-155
1994	0	0		378834	373	985.37	-373
1995	0	0		594136	623	1048.98	-623
1996	0	0		556495	999	1794.93	-999
1997	0	0		296766	471	1587.35	-471
1998	0	0		18	37	2055.56	-37

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 94 Maize Foreign Trade 1985-1998							
Years	Import			Export			
	Quantity (Ton)	Value (Million SP)	Price/Ton CIF SP	Quantity (Ton)	Value (Million SP)	Price/Ton FOB	Trade Balance Million SP
1985	208287	323	1550.95	0	0		323
1990	249352	675	2707.08	0	0		675
1991	26223	490	18678.95	0	0		490
1992	104096	188	1804.21	0	0		188
1993	347585	505	1452.53	0	0		505
1994	0	0		378834	373	985	-373
1995	316632	512	1617.17	0	0		512
1996	0	0		556495	999	1794	-999
1997	596673	920	1541.60	0	0		920
1998	505323	832	1646.11	0	0	18600	832

Source annual statistical abstract, Syrian foreign trade

Annex 4 Table 95 Concentrates Used For Fodder Production Foreign Trade 1985-1998						
Years	Import			Export		
	Quantity (Ton)	Value (Million SP)	Price/Ton CIF SP	Quantity (Ton)	Value (Million SP)	Trade Balance Million SP
1985	31	1	3058	0	0	1
1990	29816	157	5277	0	0	157
1991	27854	143	5147	0	0	143
1992	19786	102	5168	0	0	102
1993	35690	178	4993	0	0	178
1994	21015	104	4951	0	0	104
1995	28711	143	4985	0	0	143
1996	28858	143	4968	0	0	143
1997	20312	80	3937	0	0	80
1998	2027	11	5469	0	0	11

Source annual statistical abstract, Syrian foreign trade

ANNEX 5

Annex 5 Table 96 Development of MAAR Investments 1989-1998 (thousand Syrian Pound)															
	1980	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Cent. Adm.	73706	441222	536574	472446	665077	734982	1069435	1271771	1566871	1650182	2018407	2470824	3455626	3882535	4020074
Establishments	98026	210615	220580	226915	294306	294102	240890	313007	304884	369939	468658	354409	459786	409578	302191
Real estates	19604	13505	16528	11696	37166	56485	11696	37166	56485	48890	53419	49686	61295	62927	74640
Total	191336	665342	773682	711057	996549	1085569	1322021	1621944	1928240	2069011	2540484	2874919	3976707	4355040	4396905

Source: MAAR

Annex 5 Table 97 Public Milk Dairy Processing Companies

Year	Data	Damascus Diary		Homs Diary		Aleppo Diary	
		Fresh milk	Actual Production	Fresh milk	Actual Production	Fresh milk	Actual Production
1988	Sterilized Milk	10565	4087	6727	2698	5903	4081
	Yogurt		7784		5626		4263
	Double fat yogurt		1043		736		251
	cheese		274		158		90
	ghee & butter cream		604		385		224
1989	Sterilized Milk	12540	4804	10123	3084	9339	4385
	Yogurt		3779		4601		3831
	Double fat yogurt		868		814		192
	Cheese		199		128		125
	ghee & butter cream		126		81		126
1990	Sterilized Milk	12732	4916	14637	3821	8831	4389
	Yogurt		3606		5031		2515
	Double fat yogurt		952		819		170
	Cheese		345		523		94
	ghee & butter cream		297		300		178
1991	Sterilized Milk	13106	4954	11392	3256	9620	3907
	Yogurt		3063		4057		2507
	Double fat yogurt		875		858		109
	Cheese		192		365		247
	ghee & butter cream		427		424		228
1992	Sterilized Milk	11840	4886	9838	2882	7811	3191
	Yogurt		2770		4325		2688
	Double fat yogurt		381		835		89
	cheese		283		232		131
	ghee & butter cream		117		89		48
1993	Sterilized Milk	12551	6052	9982	3558	8669	4769
	Yogurt		3977		5245		2535
	Double fat yogurt		762		1501		65
	Cheese		210		414		188
	ghee & butter cream		619		179		204
1994	Sterilized Milk	13548	5165	16089	4217	8503	6322
	Yogurt		3607		5672		2921
	Double fat yogurt		778		1826		107
	Cheese		313		748		88
	ghee & butter cream		338		619		167
1995	Sterilized Milk	14225	5276	18312	4622	7833	3904
	Yogurt		2382		5174		1639
	Double fat yogurt		617		1668		133
	Cheese		420		697		182
	ghee & butter cream		802		278		276
1996	Sterilized Milk	11822	5284	10701	3606	9113	5192
	Yogurt		2018		2441		1265
	Double fat yogurt		300		480		18
	cheese		240		340		154
	ghee & butter cream		784		519		413
1997	Sterilized Milk	11884	5045	8707	2948	10345	5355
	Yogurt		1610		2011		1522
	Double fat yogurt		219		618		16
	Cheese		347		301		228
	ghee & butter cream		758		365		291
1998	Sterilized Milk	10127	4003	8428	2644	9873	6081
	Yogurt		1461		2280		1473
	Double fat yogurt		374		663		10
	Cheese		313		356		148
	ghee & butter cream		643		171		146

Source: MAAR

Annex 5 Table 98 Agricultural Extentionists & their Educational Levels 1990-1996							
	1990	1991	1992	1993	1994	1995	1996
male agricultural engineers	1721	1696	1880	2161	2045	2388	1988
female agricultural engineers.	406	418	437	522	514	599	597
veterinarians	545	579	573	766	1083	1389	1573
agricultural supervisors	303	430	509	576	865	883	952
total	3075	3123	3410	4035	4507	5259	5110

Annex 5 Table 99 Number of Agricultural Extension Units by Governrates																		
	198	198	198	198	198	198	198	198	198	198	199	199	199	199	199	199	199	total
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6		
Damascus	3	9	13	9	6								1	1			1	43
Homs	3	9	13	9	16					6			2	2			1	61
Hama	3	7	10	6	10					6	3		3	1			1	50
Aleppo	4	12	14	12	20				13	15				3			1	94
Edlib	3	7	12	7	11					5			1	2	1	1	1	50
Lattakia	3	9	13	7	13					17			3	2	1	1	1	69
Tartous	3	9	13	7	13					17		1	2	2	2	1	1	70
Al Raqqa	7	9	13	9	12				13	10	5	3		1	2	1	1	87
Deir	7	9	13	10	21					15			2	1	2	1	1	81
Ezzor																		
Al	7	10	13	11	19				13	20			4	5				102
Hassakeh																		
Dara'	4	8	13	7	10												1	43
Sweida'	4	8	13	6	10													40
Kuneitera	1	2	2	1														6
Al Ghab		7	6	4	7								2	2	2	2	2	32
Total	52	115	160	105	167				39	111	8	5	20	23	10	12		828

Annex 5 Table 100 Number of Centrally Trained Engineers

	Agricultural Extension courses		household economics courses	
	no. of courses	trainees	no. of courses	trainees
1980	1	25		
1981	2	52	1	26
1982	3	93	3	70
1983	3	80	2	36
1984	6	170	1	16
1985	6	173	1	23
1986	6	161	2	45
1987	9	194	2	30
1988	4	80	2	30
1989	5	104	2	27
1990	6	119	2	39
1991	6	118	2	34
1992	6	83	2	37
1993	3	51	1	10
1994	2	33	2	17
1995	2	37	2	31
1996	6	130	3	76
total	71	1703	30	549

Annex 5 Table 101 Number of Technicians and Farmers who Took Training Courses

Year	Technicians courses		Male courses		Females courses			
	No. Of courses	Trainees	No. Of courses	Trainees	Short courses		Long courses	
					No. Of courses	Trainees	No. Of courses	Trainees
1980	28	484						
1986	46	713						
1987	47	685	43	767				
1988	41	635	72	1250				
1989	49	672	85	1510	20	383		
1990	31	405	50	875	22	392		
1991	32	467	99	2026	27	543		
1992	26	405	90	1662	24	413		
1993	39	537	96	1640	29	524	68	1480
1994	36	495	124	2263	93	1453	50	1137
1995	33	525	93	1649	68	1123	51	1066
1997	80	1204	332	6517	114	2104	148	3171
Total	277	4038	884	75980	377	6552	317	6859

Annex 5 Table 102 Long Term Specialized Training			
Year	no. of courses	trainees	subject
1988	2	23	crops: wheat, barley and sugar beet from farming up to harvesting (1989)
	3	24	fruit trees (apples, citrus, olives) from farming up to harvesting (1989)
1989	2	19	crops (cotton and maize) from farming up to harvesting
	2	29	cattle and poultry
	2	25	crops (wheat, barley and sugar beet)
1990	3	24	fruit trees (apples, citrus, olives)
	1	12	cattle (1991)
1991	2	20	cotton and maize from farming up to harvesting
1992	2	21	crops: wheat, barley and sugar beet from farming up to harvesting (1989)
	3	22	fruit trees (apples, citrus, olives) from farming up to harvesting (1989)
	1	9	cattle (1993)
1993	2	15	crops (cotton and maize)
1994	5	48	wheat, barley, sugar beet, apples, citrus and olives
	1	12	cattle (up to 1995)
1995	2	17	crops (cotton and maize)
1996	5	46	wheat, barley, sugar beet, apples, citrus and olives (up to 1997)
Total	24	271	

Annex 5 Table 103 Number of Domestic and Foreign Training Courses in 1998			
No. Of courses	Trainees	Beneficiaries	
558	9180	male & female engineers	
995	15810	farmers	
120	5164	students	
77	265	engineers	
36	44	engineers & engineers assistants	

Annex 5 Table 104 Development of Agricultural Schools and Students in 1980-1999			
	Students	Schools	Notes
1980-1981	1306	9	males
1990-1991	4699	14	males & females
1992-1993	4874	15	an agricultural high school was established in Al Sweida'
1993-1994	5414	12	an agricultural high school was established in Homs
1994-1995	7330	12	an agricultural high school was established in Homs
1995-1996	9354	22	4 agricultural high schools were established in Hama, Efreeen, Manbeg and Ain Al Arab
1996-1997	11588	29	8 agricultural high schools were established
1997-1998	14500	32	3 agricultural high schools were established
1998-1999	16681	32	1 agricultural high schools were established

Annex 5 Table 105 development of Agricultural and Veterinarian Institutes Students in 1978-1998					
	1987-1988	1990-1991	1992-1993	1995-1996	1997-1998
Dier Ezzor veterinarian institute	166	23	148	87	263
Al Hassakeh agricultural Institute	279	137	179	238	94
Al Kuneitera agricultural Institute	68	198	204	313	165
Sweida' agricultural Institute	122	312	320	407	189
Dara' Institute	131	246	301	266	243
Homs agricultural Institute	183	104	264	278	349
Deir Ezzor agricultural Institute	113	187	181	314	326
Edlib agricultural Institute	33	109	409	318	129
Tartous institute					94
Al Raqqa institute					59
Al Raqqa veterinarian institute					154
Lattakia veterinarian institute					90
Total	1095	1316	2006	2221	2155

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Dier Ezzor veterinarian institute	71	55	93	80	94	122	148	136	150	200
Al Hassakeh agricultural institute	23	22	37	49	22	43	63	50	29	40
Al Kuneitera agricultural institute	38	21	23			26	19	37	51	32
Sweida' agricultural institute	96	52	61	42		21	44	41	47	45
Dara' institute	80	55	27	51	40	23	40	55	56	36
Homs agricultural Institute	119	139	85			86	100	138	109	110
Deir Ezzor agricultural Institute	67	24	37			11	54	32	36	86
Edlib agricultural Institute	25	19	10	10	19	17	26	26	14	36
Total	519	387	373			349	494	515	492	585

Description	No. of livestock breeding farms licenses during the month	Production capacity of livestock farms during the month	No. of livestock breeding farms licenses during 1999	Production capacity of livestock farms during 1999	Total number licensed farms	Total production capacity of licensed farms
Cattle farms	7	207 cows 330 calves	84	2089 cows 2442 calves	537	14966 cows 17687 calves
Sheep farms	-	3	1485	14	1620 females/cycle 4588 males/cycle	27370336 birds/cycle
Poultry						
-						
Broiler	6	31300	86	547370	3849	10608746 birds/cycle
Layers	-	-	12	121000	1071	161900 birds/cycle
Broilers parents	6	19800	12	124700	127	183300 birds/cycle
Layers parents	-	-	1	9200	11	146200 birds/cycle
Broilers grand parents	-	-	1	17600	7	9581020 eggs/cycle
Hatcheries	-	-	1	192000	30	

Annex 5 Table 108 Private Fodder Plant licensed by Livestock Department, MAAR		
Product	Production capacity range	Number
Premixes for broiler	3-5	3
Meat & Bone meal	2-20	3
Premixes for milk production	0.5-50	20
Concentrates for egg layers	5	1
Premixes & concentrates for milk production	4	1
Concentrates for poultry & milk production	2	1
Concentrates for broiler & layers	na	1
Premixes for poultry and milk production	3	2
Poultry concentrates & premixes	10	1
Concentrates for poultry	3-8	6
Concentrates & meat and bone meal	2	1
Cotton seed cake	20	2
Cotton seed cake & premixes for milk production	2	1
Soybean cake	2	1
Concentrates & premixes for milk production	4	1
Premixes for cattle	50	1
Premixes for broiler & layers	4-10	2

Annex 5 Table 109 Dairy Plants Established up to the end of 1998						
Governerate	Damascu s	Aleppo	Lattakia	Raqqa	Hama	Homs
Number	8	2	9	3	1	2
Annual Production capacity (ton)	262	1525	1386	2.3	3090	2760150
Source: Ministry of Industry						

Annex 5 Table 110 Livestock Credit Demand Table

poultry credits				
short term loans for chicks, feed and services				
type	demand date	credit allocation/unit	due payment date	notes
egg layers	around the year	75 LS	after 10 months	according to the production capacity mentioned in the license
parents	=	150 LS	=	=
boiler	=	40 LS	after 7 months	=
hatching	=	4.5 LS	after 3 months	=
mid term loans for equipment procurement to improve the farm investment				
like incubators, feed mixers, power generators, etc.				
investment	credit allocation/unit	notes		
parents, eggs	60 LS	according to the production capacity mentioned in the license		
broiler	40 LS	=		
local cattle, milk and fattening sheep, fattening calves and horses				
mid terms loans for local cattle and sheep				
variety	credit allocation/unit	demand date	due payment date	notes
Friesian and shami	35000 LS	around the year	maturity age	
hybridized	30000 LS	=	=	ten heads for a specialized cooperative member and 5 for multiple purposes coop. Members
sheep	2500 LS	from May to Sep.	May and June	
short term loans for cattle, sheep and horses feed				
Friesian, shami or hybridized cows	6000 LS	around the year		in kind loans delivered by the GEF, in case feed is un available, producers are provided with cash loans
local cows	3000 LS	=	=	
Arab horses	14000 LS	=	=	
sheep	350 LS	from Oct. to Mar.		

feed and fattening calves and sheep procurement				
fattening sheep	750 LS	250 LS	loan term 6 months	in kind loans delivered by the GEF, in case feed is unavailable, producers are provided with cash loans
fattening calves (foreign)	6000	2000	10 months	
fattening calves (local)	3000	1000	10 months	
Notes: horses loans are given just to Arab horses breeding cooperatives sheep prices are reconsidered on an annual basis				

Annex 5 Table 111 Loans by Enterprise 1991-1998								
Year	1991	1992	1993	1994	1995	1996	1997	1998
Poultry	250	202	211	285	419			324
Cattle	50	61	53	83	142			218
Sheep	362	147	0	80	52			30
Other animals	38	25	89	53	60			72
Stores & barns	32	74	113	125	151			86
Total	11681	13318	13537	14380	15440			10156

Annex 5 Table 112 Vaccination and treatment programme		
Months	Parasite treatments	Precautionary vaccination
January	—	cattle plague
February	—	—
March	liver -fluke disease- Stomach worms- pulmonary worms top worms	cattle foot-and- moth disease
April	liver -fluke disease- Stomach worms- pulmonary worms top worms- theileriosis- babesia	cattle foot-and- moth disease brucella
May	theileriosis- babesia - ectoparasite	cattle foot-and- moth disease - anthrax
June	—	brucella melitensis - anthrax
July	—	brucella melitensis
August	theileriosis- babesia - ectoparasite	avine variola -goot variola
September	theileriosis- babesia - ectoparasite	melitensis foot-and- moth disease - avine variola- goot variola
October	liver -fluke disease- Stomach worms- pulmonary worms top worms	melitensis foot-and- moth disease -
November	liver -fluke disease- Stomach worms- pulmonary worms top worms	cattle foot-and- moth disease- — brucellosis
December		cattle plague

Annex 5 Table 113 Development of MAAR Investments 1989-1998												Unit:
000 SP												
Years	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Poultry	63147	80996	69356	77122	99697	80138	42826	69557	51655	51143	44470	27534
Cattle	22199	23629	41091	22199	23629	41091	43625	29738	13620	12835	20546	21885
Fish	5264	7542	10850	5264	7542	10850	1525	3485	3364	2879	9650	282
Feed	7432	18048	16204	7432	18048	16204	79435	81450	79965	77750	51796	20779
Seed	18117	13671	21719	18117	13671	21719	35124	73515	57273	161661	113600	76105
multiplication												
Agricultural	30288	20872	11808	30288	20872	11808	5415	2758	1250	810	939	999
Machinery												
Al Ghab	27979	39900	44231	27979	39900	44231	83001	104207	109510	108730	124129	126156
Investment												
State Farms	52489	89648	78843	52489	89648	78843	78988	103948	37772	43978	44448	27905
Total	226915	294306	294102	240890	313007	304884	369939	468658	354409	459786	409578	301645

Source: Ministry of Agriculture and Agrarian Reform

Annex 5 Table 114 Development of MAAR Investments 1987-1998												Unit:
000 SP												
Years	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Agriculture Scientific Research Stations	16059	20183	23450	32754	41560	61100	71288	105288	117934	137121	151733	168717
Livestock production research stations	3040	4424	6221	14070	23662	21625	26477	40581	47633	52577	63349	63478
Agriculture Extension development	4657	3486	6373	55754	72369	76133	63380	72988	89741	88572	89899	104873
Land classification	7437	9404	12522	11525	5748	5000	4716	28626	44199	39053	38618	44234
Control support	23783	22560	27373	36163	38864	66695	81710	85792	94705	108285	145507	143363
Fruit trees production	152410	125782	129333	165655	158596	167516	186338	184065	213881	290333	249903	257944
Fruit trees planting	100190			199247	229645	246340	258627	301997	327794	467493	609464	564825
Kuneitera fruit trees project	6638	9231	8419	10075	9489	11850	9996	10430	12971	17907	15991	18952
Dier Ezzor green belt	-	12589	6221	12000	8612	13000	14087	11738	11500	24473	13984	18962
Forests development	61373	111733	130202	210806	269568	293108	285961	336161	334646	636826	493817	635885
Forest development	-	-	-	-	-	11871	25221	38112	28589	32817	34795	
Forest conservation & fire control	-	-	-	-	-	-	-	10572	34829	18579	47330	94645
Vet. generalization	18265	19080	28015	31669	39259	45062	29937	73637	79492	75825	61327	63841
Local cows development	4877	11157	17733	20972	14700	34948	17405	28579	33304	59527	42860	42162
Fish development	-	-	-	-	-	-	-	-	16923	40123	39199	39599
Al Badia Wells	12956	17398	11957	13681	17995	38881	44488	44158	48884	56521	63122	83061
Syrian Badia development	20459	16029	32069	42259	44136	75667	69975	74045	94425	80908	103052	127872
Al Badia wells completion	-	10087	17412	37180	20387	12518	31711	30737	48908	54261	49765	39599
Al Taleela conservation	-	-	-	-	-	5940	1989	2146	1600	1843	1842	
Bees breeding & honey prod.	-	13776	16059	28141	23295	26282	25093	31065	29312	31921	35213	37259
Southern region development	40302	60788	54621	55388	49058	69487	115155	121024	166796	316221	378719	227629
Water management improvement	-	9637	8000	8557	12324	22385	18477	20451	21263	23437	32346	13680
Mhasseh natural resource improvement	-	548	17308	17597	24893	20205	11785	43585	23481	19199	22058	

Al Tanf project	—	—	7932	9241	8962	79366	70608	70234	72972	58480	82041	24770
Mouh project	—	—	15000	56701	39881	30476	10963	5259	5000	4688	3765	
al Khrab project	—	—	138	—	15963	24503	19069	18783	17913	12756	16595	843725
Agr. Roads	—	—	19150	—	98828	99035	132854	167546	326844	547896	792318	0
Arab horses farm	—	—	—	—	2977	7878	17501	41665	65786	42553	44556	25512
Dara' project	—	—	—	—	1000	—	5371	3915	3949	2984	9495	
Rain making	—	—	—	—	—	—	—	15228	24472	22598	29458	6801
Al Hoss project	—	—	—	—	—	—	—	—	31078	46562	38583	
Sweida' project	—	—	2500	—	—	—	—	—	—	5000	4207	
Fertilizers application development	—	—	—	—	—	—	—	—	—	37387	35987	39639
Central & coastal development	—	—	—	—	—	—	—	—	—	900	41637	73278
Total	472446	66507	734982	106943	127177	156687	165018	201840	247082	345562	388253	
				5	1	1	2	7	4	6	5	

Source: Ministry of Agriculture and Agrarian Reform

Annex 5 Table 115 Type and Distribution of Farmers Cooperatives for 1996

Governorate	Multi purpose coops.	Production			Breeding		Fattening			Poultr y	Silk cocoon s	Fish	Horse s	Camel s	Hone y bees	Tot al
		Farmi ng	Cattle	Fish	Sheep	Range	Cattl e	Sheep	Calve s							
Damascus	223		1		11	22	19	5	1	1	11		2		2	309
Aleppo	884				64	16	5	8				5				982
Homs	330				70	123	27	33	2		12		1	1	3	605
Hama	364				8	27	1	14			1	1				417
Lattakia	410										1				1	476
Edlib	397				27	3	3	26	1						3	460
Deir Ezzor	91	1				99	42	8				1	1	1		244
Al Hassakeh	508				57	32		3				1	2			604
Al Raqqa	188				78	103	7	1				6		1		384
Sweida'	113				32	14									1	160
Dara'	104				39	2	23				1		1		3	173
Tartous	339	1										3			1	344
Kuneitera	60		1				4									65

Source: Farmers' Statistical Abstract

APPENDIX 3

POVERTY AND PER CAPITA CONSUMPTION

Appendix 3

Human Situation and Per Capita Share in the Syrian Arab Republic

The Department of Agricultural Economics has carried out a field survey about food consumption patterns, per capita share of the food products and plant and animal products content of protein, fat and calories. The questionnaires related to daily consumption were filled by the household head.

Samples were selected from urban and rural areas in a way that covers all the social classes. One third questionnaires were distributed to families with an income less than 4 000 SP, one third to families between 4 000-6 000 SP and one third to families of income above 7 000 SP.

The results of the survey

Average daily per capita consumption of food commodities was as follows:

- 378 gr. of bread; 37 gr. of crushed wheat; 28 gr. of other wheat products, taking into consideration that rural areas, particularly Al Raqqa, consume more than urban areas.
- 43 gr. of rice; 15 gr. of lentils; 9 gr. of broad beans; 12 gr. of chickpeas; 8 gr. of other legumes
- 24 gr. of red meat; 36 gr. of poultry meat; 7 gr. of fish; 3 gr. of canned meat and fish;
- 25 gr. of eggs;
- 55 gr. of fresh milk; 3 gr. of powder milk; 78 gr. of yogurt; 19 gr. of double fat yogurt; 15 gr. of cheese; 8 gr. of ghee or equivalent quantity of fresh milk, taking into account that the conversion coefficient: powder milk 5:1, yogurt 1:1, double fat yogurt 1:4 and cheese 1:5.

Per capita average consumption of other products is as follows:

- 15 gr. of olive oil; 11 gr. of hydrated oils;
- 58 gr. of potatoes; 5 gr. of dry garlic; 12 gr. of olives; 56 gr. of sugar; 12 gr. of vegetable oil; 7 gr. of nuts; 18 gr. of dry onion; 25 gr. of apples; 2 gr. of sesame paste; 7 gr. of tea; 5 gr. of coffee.

Poverty

Per capita share of GDP (in 1985 constant prices) increased from 4496 SP in 1970 to 8218 SP in 1980 and 8680 SP in 1994.

According to the Unified Economic Arab Report of 1994 Syrian per capita share of GDP at \$ 1000, whereas according to the Human Development Index it is \$ 1170.

Whatever the figure is, the GDP is not distributed equally to the population, which is the important issue to be addressed in the future studies.

The Economic Development Report of 1994 indicates that 2.5 million Syrians live in conditions below the poverty line. Whereas the study carried out by the Ministry of Agriculture and Agrarian Reform indicates that 43% of the households included by the survey live under the poverty line and that the average household income is around \$ 927 per year.

The results of the above mentioned research indicate that 35% of the rural population and 18% of the urban population are under the poverty line. But the fact that should be taken into account is that most of those people receive free services like basic education, health services and main food commodities such as sugar and rice.

Source: experts meeting on the poverty eradication strategy in Arab countries 28-29/2/1996.

Size and Structure of Per Capita Expenditure

Total per capita expenditure is 7 969 SP out of which 4 112 SP is spent on food commodities (51.6%), 3865 SP on non food commodities (48.4%) which is a reasonable result that complies with the developing countries situation, where people give the main food commodities the first priority.

The comparison of rural to urban per capita expenditure refers to the fact that urban expenditure is 734 SP more than the rural one (8259 SP- 7525 SP), which means that the urban living standards are better than those of the rural ones.

The average per capita consumption on food commodities varies according to the importance of that commodity:

- bread comes at the top of the list in the cereals group;
- lentils comes at the top of the list in legume group;
- sheep meat comes at the top of the list in meat group, and;
- white cheese comes at the top of the list in dairy group.

Expenditure priority was given to house, meat and olive oil.

APPENDIX 4
MARKET CHANNELS FOR LIVESTOCK PRODUCTS

Appendix 4

Market Channels for Main Livestock Products

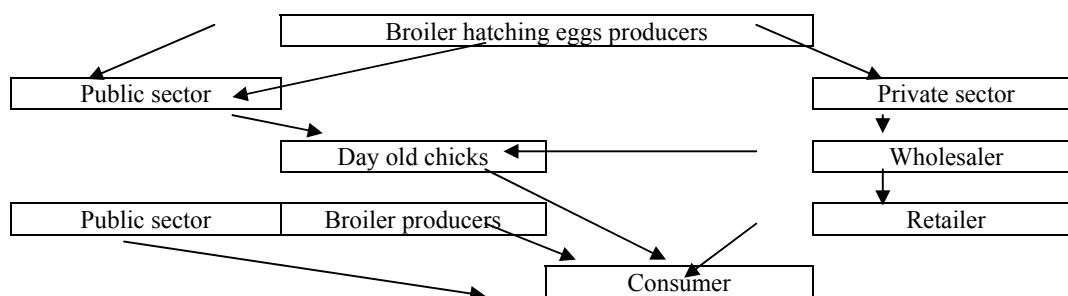
Broiler Hatching Eggs Producers

Note: in 1998 the licensed farms came up to 3414 where as the unlicensed farms were 626. Licensed broiler parents farms were 70 and the unlicensed were 4, whereas grand parent farms were 4.

Broiler average price in the same year ranged between 45-60 SP/kg for live weight and 60-80 SP/kg for meat. Average production cost was 50 SP/kg live weight.

In 1998 the General Establishment for Poultry produced 4848 tons of meat, 1654 tons of out of production broiler.

Total production was 82976 tons of meat and 14267 tons of out of production broiler.



Cattle Beef Producers

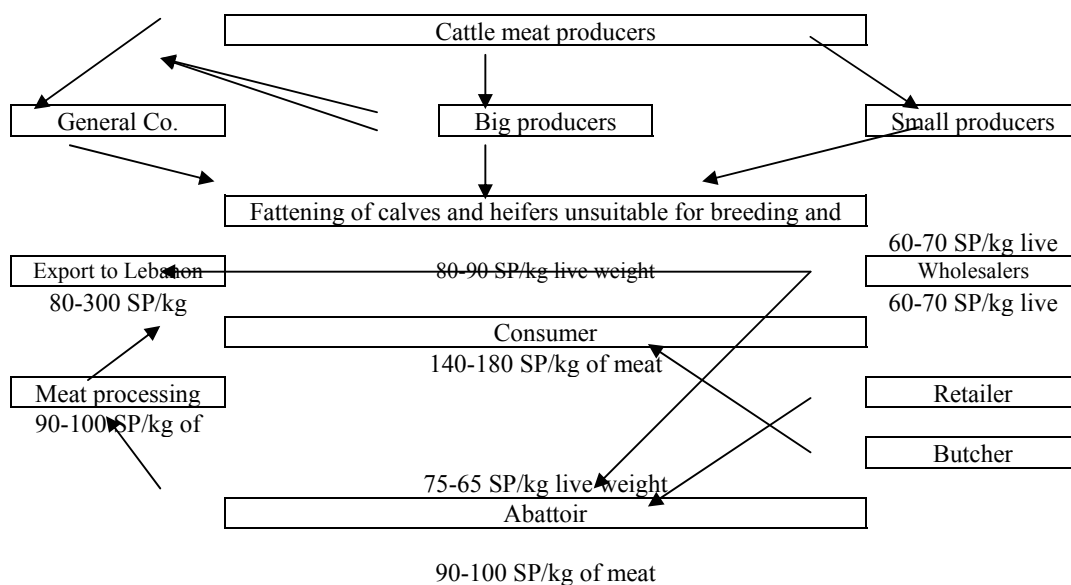
Prices mentioned in the graph apply to young calves and heifers only, where as older cattle meat prices are as follows:

- 40-50 SP/kg live weight;
- 120-140 SP/kg meat.

Around 104 000 heads have been slaughtered in 1998, assuming that the average weight is 400 kg, the price of the produced meat would be:

Maximum = 104 000 x 400 x 140 = SP 5.824 billion

Minimum = 104 000 x 400 x 120 = SP 4.992 billion



Sheep Meat Producers

154 285 heads were exported in 1998 and 389 304 heads were exported in 1999 through the General Establishment for Meat to the Gulf countries.

Exported and imported sheep numbers vary from one year to another, but generally the 2 to 1 regulation is applied.

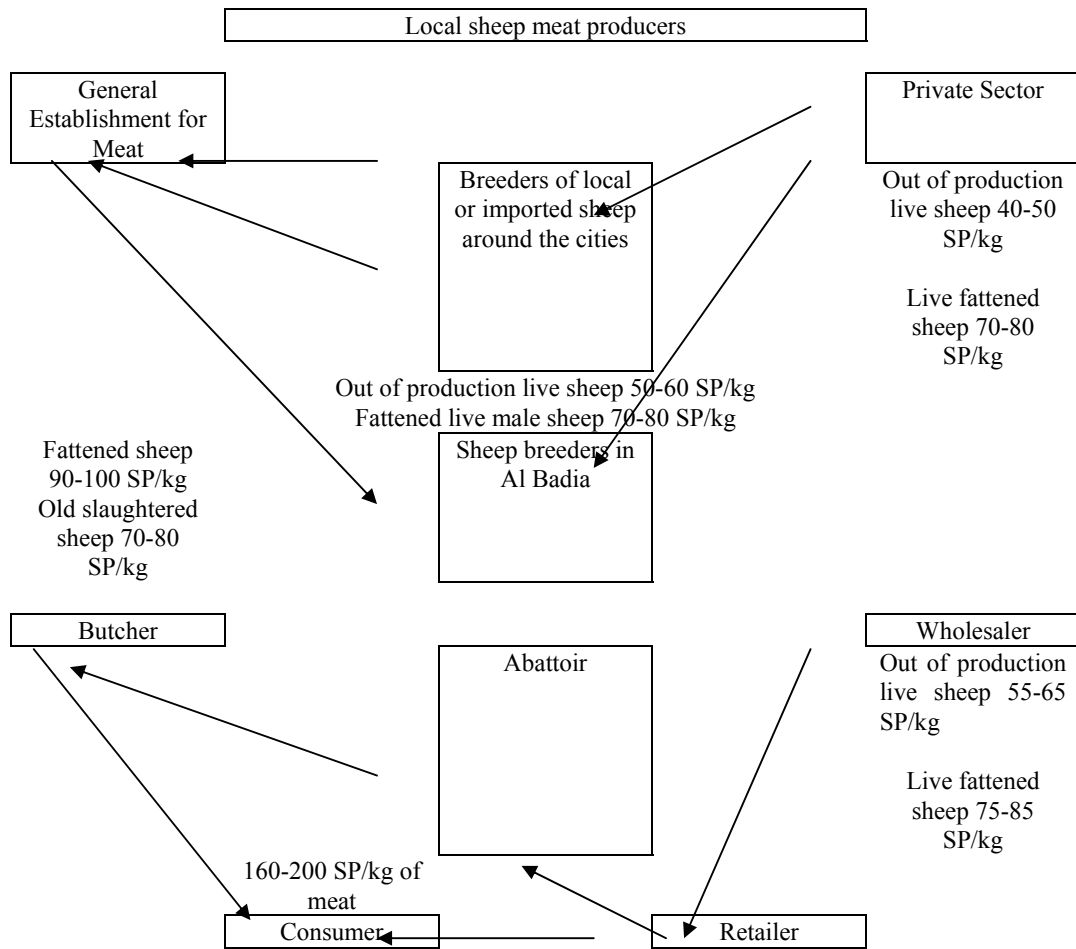
The prices mentioned in the graph are the live sheep price which vary according to demand and supply by 5-10 SP/kg for live weight and 10-15 SP/kg for meat.

Prices of live imported sheep are 10 SP/kg less than the local sheep, whereas the imported meat price is 20-40 SP/kg less.

According to the statistical abstract of 1998, the number of sheep slaughtered in the government abattoirs was 2.4 million heads. Assuming that the price was 45 kg, the value of the produced meat was as follows:

Maximum $2.4 \text{ million} \times 45 \text{ kg} \times 180 \text{ SP} = \text{SP } 19.4 \text{ billion}$

Minimum $2.4 \text{ million} \times 45 \text{ kg} \times 150 \text{ SP} = \text{SP } 16.2 \text{ billion}$



Sheep Milk Producers

The total sheep milk production in 1998 was 582 000 tons produced by 10.074 million milking heads out of the total herd of 15.425 million heads. The estimated value of the produced milk is as follows:

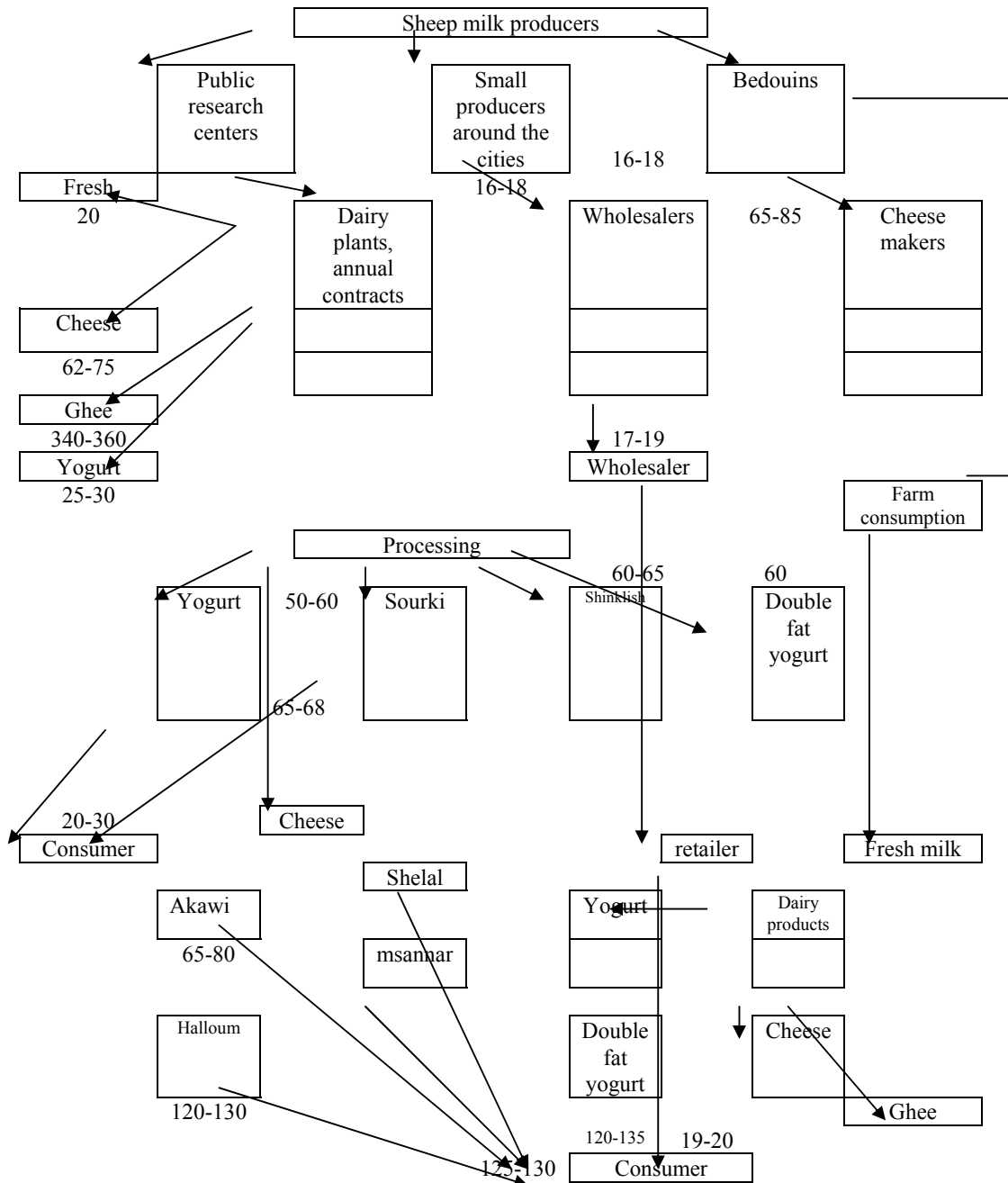
Maximum 582 000 tons x 18 SP = SP 10.5 billion

Minimum 582 000 tons x 16 SP = SP 9.3 billion

A table including the number of sheep and their productivity is attached.

Note: each 100 kg of sheep milk produced 28-30 kg of white akawi cheese sold at a price that ranges between 65-80 SP/kg, 500-600 gr. of ghee at the price of 200-225 SP/kg and 2-3 kg of cottage cheese (karessheh) at the price of 50-60 SP/kg.

Note: these prices vary between summer and winter by 5-10 SP/kg according to rain fall and fruits and vegetables production as well as national and religious occasions.



Cattle Milk Producers

Cattle milk production in 1998 was 1 119 000 tons produced by 448 000 milking cows out of the total herd of 932 000 heads. The estimated value of the produced milk is as follows:

Maximum 1 119 000 x 13 SP = SP 14.5 billion

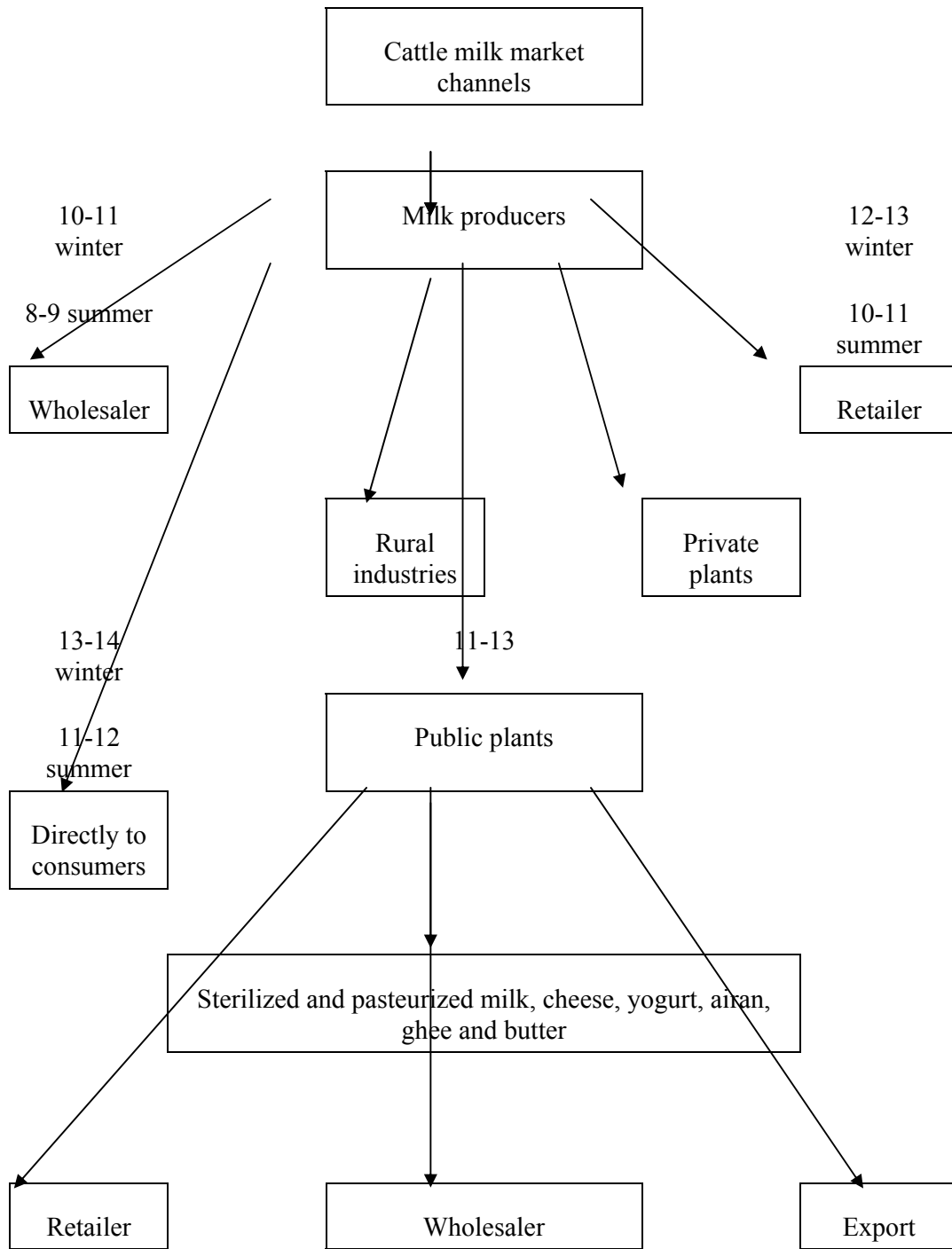
Minimum 1 119 000 x 10 SP = SP 11.19 billion

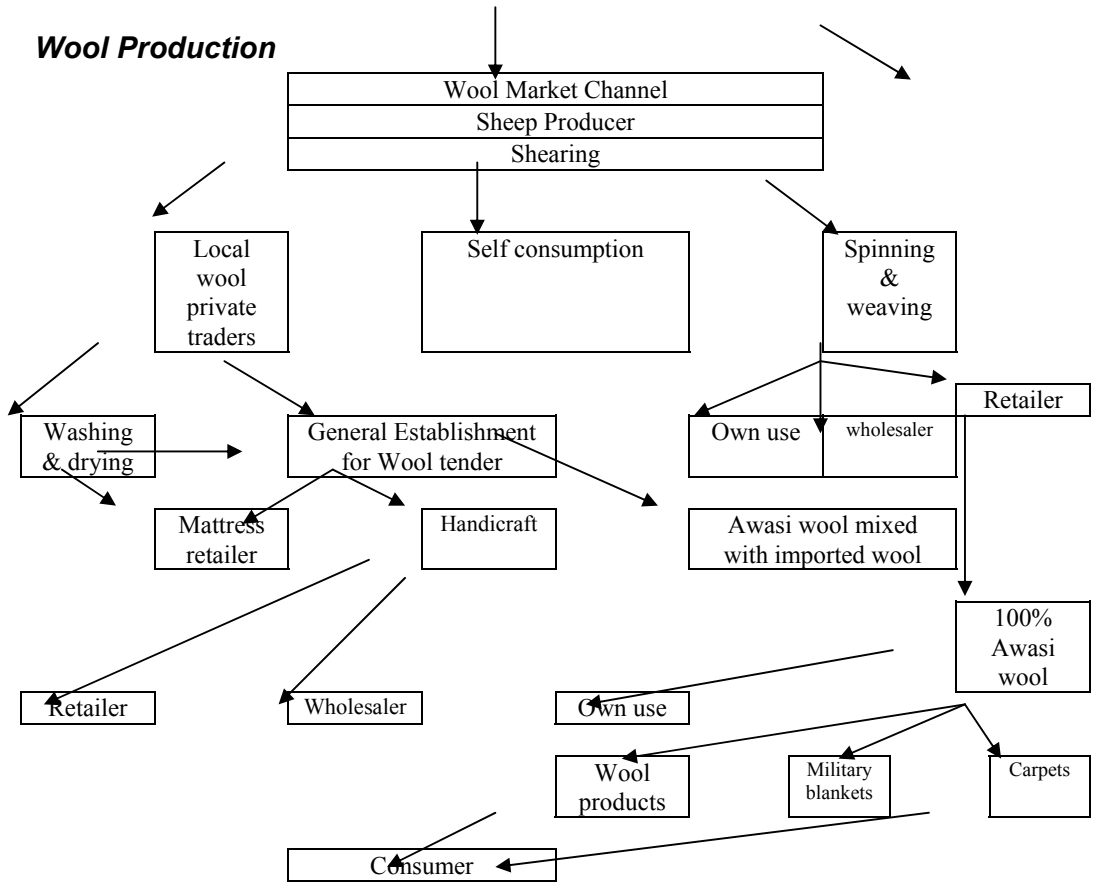
MAAR carried out a study about the development of milk production during the period 1986-1995 and calculated the production cost as well as the wholesale price to estimate the profit margin.

Note: Syrian imports powder milk, cooked cheese, butter and canned cream. Exports are limited to cheese which is exported exclusively to Lebanon, Jordan and the Gulf countries.

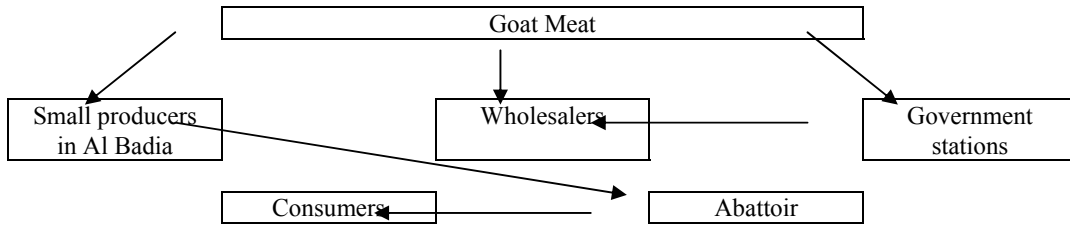
Price list in the local market:

- sterilized milk: 30 SP/ 1 kg bottle;
- sterilized milk: 25 SP/ 1 kg poly ethylene bag;
- pasteurized milk: 45 SP/bottle;
- powder milk 2.5% fat: 375 SP/kg;
- Kashkawan cheese: 220 SP/kg;
- Double fat yogurt: 60 SP/kg;
- Airan: 15 SP/ 300 ml bottle;
- Cooked chees: 220 SP/kg;
- Butter: 160-170 SP/kg;
- Cream: 130-140 SP/kg;
- Ghee: 200-240 SP/kg;
- Halloum cheese: 110-120 SP/kg;
- Shellal cheese: 100-115 SP/kg;
- Akawi cheese: 60-70 SP

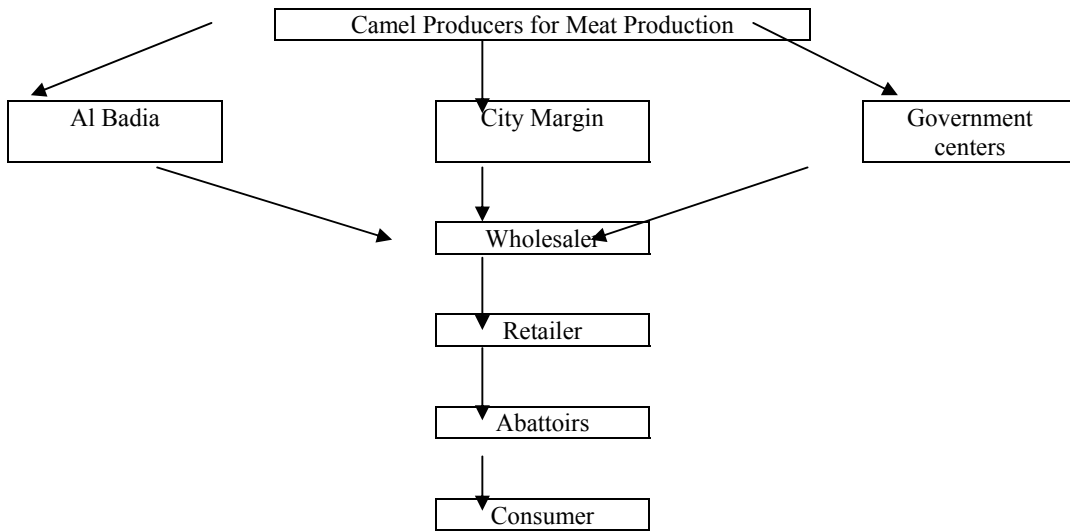




Goat Meat



Camel Meat



APPENDIX 5

PRICES FOR FOOD COMMODITIES 2000

Appendix 5

Ministry of Supply Price List for Food Commodities for the year 2000

The Head of the Executive Board of Damascus Governorate Council resolves the following:

Article 1- the maximum price for top quality commodities in Damascus are determined as follows:

/1/

Sheep meat Syrian Pounds

Products & Specification	Awasi male	Bila male (imported sheep)	
		Bila female (imported sheep)	
lean meat	200	140	
Meat with 10% fat	230		
Meat with fat of 50 %	170 s.p	135	190
thigh with its bone without fat	185 s.p	165	115
Armpit with its bone	165	155	105
Neck with bone		150	135
150			
Glut	80	75	

All butchers should not combine any 2 of the above-mentioned products in addition they should announce the price and the kind of meat that have.

Sheep Offal:

Selling price of 1 kg of pluck with 2 eggs and 2 pieces of kidneys from each kind or with out it for consumer , restaurant and for sandwich shops is 74 s.p.

General establishment for trade determines selling price of sheep eggs which is 69 s.p for all sector (private, public and joint venture). Also the sheep offal price for consumer is determined as following:

Products & Specification	Kg.	Consumer price
Sheep liver	1	130 s.p
Kidney	1	120
Sheep eggs	1	65
Cleaned sheep heart without fat	1	80
Un-cleaned heart	1	60
Sheep Spleen	1	75
Red sheep meat		10
Lean calf meat	1	185
Calf steak		200

Calf meat without bone 50 % fat	1	150
<i>/2/</i>		
Lean cow meat	1	150
Cow meat without bone 50 % fat	1	120
Lean camel meat	1	200
Camel meat without bone 50 % fat	1	150

Raw sheep offal

Product	unit	consumer price
Sheep Coccyx	kg	100 s.p
Entire cleaned offal with tongue & spinal		88
Cleaned Head with tongue and spinal		55
Un-cleaned head & tongue		38
One Spinal		17
Head		23
Tongue without bone		15
4 cleaned leg (calf of leg)		20
Sausage		54
Cleaned paunchy/pot/		9
Intestine	4	

Boiled sheep offal:

Product	price
Entire head with tongue and spinal	61
Head with tongue	43
Head	27
Boiled spinal	18
Intestine	5
Tongue without bone	16

Product	w/s price/ kg.	consumer price
Fresh milk un-skimmed	13.5	15
Cow yogurt		17
Condensed full fat yogurt		55
Cow cheese with full fat		85

All traders should announce the full fat products and the product of diary company + the decided price .

APPENDIX 6

LIVESTOCK FEED IMPORTATION REGULATIONS

Appendix 6

Livestock Feed Importation Regulations

In 1987 resolutions no. 795 and 796 were issued by the Prime Minister allowing private traders to import feed.

According to resolution no. 795, importers were only permitted to import poultry feed not locally produced. According to resolution no. 796 of June 2, 1987, the following imports were opened to private sector against 180 days credit facilities: agricultural machinery and equipment; chemical control materials and medicines; concentrated feed, vitamins and other supplements; veterinarian medicines; tires and spare parts; feed including maize, sorghum, barley, bone and meat meal, fish meal, methionine, colleen chloride, laticine, small fish mixes, soybean cake and layers and broilers concentrates.

The Minister of Agriculture was authorized to determine the import tax to be levied on sorghum and barley with sale prices are to be determined according to the local market prices, with sorghum additional import tax = SP 25/ton and barely additional import tax = SP 5/ton.

Note: the General Establishment for Feed is not entitled to receive any import commission. However imports are delivered in the Establishment's name which delivers them to the importer when they arrive in the country.

If an importer decides to import feed, he need to obtain a pro forma invoice from the delivering company for example the pro forma invoice price is \$ 117/ton CIF. The importer presents an application to the Department of Livestock Production together with a copy of the pro forma invoice to obtain an import approval; the application should include the name of the company, country of origin, type of product, quantity, importers name, company location, and the entry port; the Customs Department, Ministry of Economy and Foreign Trade, Livestock Production Department Director and the General Establishment for Feed are informed of the livestock department approval; the approval is presented to the GEF together with the import cost; eg. 10000 tons x \$ 117 = 1 175 000; exchange rate 11.25 SP; value in Syrian Pounds = 13 162 500

In case the importer is a trader, he should be a member in the chamber of commerce, but if he is a poultry producer, he should have an agricultural record; the Commercial Department of the Ministry of Economics issues an import license which includes information about the company name, country of origin and the commercial record.

Documents are sent to the bank which notifies the importer to receive them; the importer presents the following documents to the GEF: a copy of the bank's letter; the original invoice; an authenticated copy of the bill of lading endorsed by the bank; a copy of the certificate of origin; a copy of the health certificate; a copy of the chemical analysis certificate; a copy of the number and weight certificate; a copy of the license and the technical specification.

The GEF issues a waiver letter according to which the importer can clear the imported material. An importer pays a customs tariff that varies according to the type of product. Estimated cost is 10 SP/kg including transportation, loading and off loading costs. Current maize price is SP 6000/ton, but it varies according to supply and demand to reach SP 8500/ton.

GEF prices are fixed and the quantities it sells should be used for farm consumption not for trading. Pricing: according to resolution no. 428 of 24/3/1983, the Supply Department determined the maximum profit margin at 15% of the import cost for importers and 5% of the sale price for traders. Import cost is calculated as follows: the invoice value; banks commission = 0.003; credit costs = 0.004 shipment costs; off loading costs; transportation to the customs department stores; storage costs; additional import tax for maize and barley; documents authentication costs; transportation from the customs stores.

APPENDIX 7

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