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-360341	388004.70	374172.70	13832.00	1991
-320611	335153.00	327881.80	7271.17	1992
-404001	425112.30	414556.50	10555.84	1993
-336825	352677.20	344751.10	7926.12	1994
-424278	465178.40	444728.20	20450.15	1995
-440270	469713.60	454991.80	14721.84	1996
-437138	470573.80	453855.70	16718.10	1997
-457155	489804.30	473479.70	16324.65	1998
-334020	355938.30	344979.30	10959.04	1999
-632727	693655.10	663191.10	30463.95	2000
-414736	444581.10	429658.80	14922.29	
-1063905	1088712.00	1076308.00	12403.30	2001
-1145912	1172762.00	1159337.00	13424.88	2002
-1001166	1036854.00	1019010.00	17843.80	2003
-1421165	1449753.00	1435459.00	14293.75	2004
-1702056	1720967.00	1711511.00	9455.40	2005
-1370167	1381490.00	1375828.00	5661.44	2006
-2104090	2130708.00	2117399.00	13308.98	2007
-2897296	2912789.00	2905043.00	7746.25	2008
-2445543	2464515.00	2455029.00	9486.00	2009
-2757040	2774799.00	2765919.00	8879.64	2010
-1790834	1813335.00	1802084.00	11250.34	
-1070021	1096369.00	1083195.00	13173.74	

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F	R <sup>2</sup>	(Y)
4.39	0.35	$\hat{y} = 9.06e^{0.09t}$ (35.85)** (2.09)
3.62	0.31	$\hat{y} = 9.62e^{-0.06t}$ (47.07)** (-1.9)
1.03	0.05	$\hat{y} = 9.57e^{-0.016t}$ (51.55)** (-1.01)
*4.94	0.38	$\hat{y} = 12.7e^{0.043t}$ (107.05)** (2.22)*
**49.95	0.86	$\hat{y} = 13.67e^{0.12t}$ (128.89)** (7.07)**
**170.26	0.90	$\hat{y} = 12.34e^{0.124t}$ (108.06)** (13.05)**
4.9	0.38	$\hat{y} = 12.69e^{0.041t}$ (110)** (2.21)
**50.24	0.86	$\hat{y} = 13.66e^{0.122t}$ (127.74)** (7.09)**
**168.65	0.90	$\hat{y} = 12.29e^{0.126t}$ (105.50)** (12.99)**
= R <sup>2</sup>	(***) (*) (t)	= e = t = Y
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(%)	( )	
32.77	4317.60	
11.46	1508.40	
5.66	746.10	
1.93	254.40	
0.74	96.90	
47.44	6250.34	
100	13173.74	

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(%)	( )
16.16	175047.00
11.10	120229.90
7.16	77536.75
6.14	66525.10
5.34	57853.55
4.91	53202.45
4.63	50184.70
4.22	45713.65
4.17	45204.70
2.72	29454.50
2.52	27254.85
1.65	17831.85
1.57	17003.40
0.51	5506.55
27.20	294646.00
100	1083195.00

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1648272	4659182	1505455	3153727	1991
1616747	4460867	1422060	3038807	1992
766272	4188928	1711328	2477600	1993
1629261	4605145	1487942	3117203	1994
1493592	4950588	1728498	3222090	1995
1663908	5493592	1914842	3578750	1996
1316938	5594206	2138634	3455572	1997
170293	4577861	2203784	2374077	1998
1753594	5610770	1928588	3682182	1999
3310059	7132887	1911414	5221473	2000
1536894	5127403	1795255	3332148	
2733554	8054376	2660411	5393965	2001
4591326	15762690	5585682	10177008	2002
9208750	20404522	5597886	14806636	2003
12593148	29103482	8255167	20848315	2004
23194453	39101535	7953541	31147994	2005
28401532	44270976	7934722	36336254	2006
32470648	49473452	8501402	40972050	2007
43536589	65928161	11195786	54732375	2008
18010285	50131419	16060567	34070852	2009
23820025	68572655	22376315	46196340	2010
19856031	39080327	9612148	29468179	
10696462	22103865	5703701	16400164	

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/ (%)	/ (%)	/ (%)	
8.33	24.85	0.44	1991
7.51	23.06	0.24	1992
10.15	24.22	0.43	1993
7.66	23.17	0.25	1994
9.40	25.73	0.63	1995
8.55	23.76	0.41	1996
8.41	21.22	0.48	1997
10.70	21.48	0.69	1998
6.34	17.89	0.30	1999
9.72	34.70	0.58	2000
8.68	24.01	0.45	
13.52	40.46	0.23	2001
7.44	20.76	0.13	2002
5.08	18.20	0.12	2003
4.98	17.39	0.07	2004
4.40	21.52	0.03	2005
3.12	17.34	0.02	2006
4.31	24.91	0.03	2007
4.42	25.95	0.01	2008
4.92	15.29	0.03	2009
4.05	12.36	0.02	2010
5.62	21.42	0.07	
7.15	22.71	0.26	

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542400	8757300	9046100	4400	1991
630200	9232900	9500500	4490	1992
708900	9137700	13077300	4570	1993
827900	9670800	12494000	4660	1994
933400	10672200	12970800	4750	1995
1074500	12327300	13404000	4840	1996
1267000	13800500	14169300	4940	1997
1394300	12610600	13700600	5080	1998
1449700	14075200	13793000	5410	1999
1439700	18456900	17157400	5240	2000
1026800	11874140	12931300	4838	
1392000	18720200	21301000	5340	2001
1348000	25914100	28469000	5500	2002
1375000	31731800	34888000	5680	2003
1328500	30892000	43561000	5900	2004
1447500	41577000	59257000	5950	2005
1254000	54537000	71576000	6000	2006
1434000	72356000	93251000	6120	2007
2247000	79534000	98315000	6480	2008
2382000	86288000	103152000	6570	2009
2473500	116639000	123751000	6650	2010
1668150	55818910	67752100	6019	
1347475	33846525	40341700	5428.5	

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85.04	3.14	88.18	1991
73.02	1.62	74.64	1992
90.71	2.31	93.02	1993
73.98	1.70	75.68	1994
93.63	4.32	97.93	1995
94.01	3.04	97.05	1996
91.87	3.38	95.26	1997
93.20	3.21	96.42	1998
63.77	2.03	65.79	1999
126.56	5.81	132.38	2000
88.58	3.06	91.64	
201.56	2.32	203.88	2001
210.79	2.44	213.23	2002
179.40	3.14	182.54	2003
243.30	2.42	245.72	2004
287.65	1.59	289.24	2005
229.30	0.94	230.25	2006
345.98	2.17	348.15	2007
448.31	1.20	449.50	2008
373.67	1.44	375.12	2009
415.93	1.34	417.26	2010
293.59	1.90	295.49	
191.08	2.48	193.56	

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جدول ٩. بعض معايير كفاءة التجارة الخارجية الزراعية اليبية خلال الفترة (١٩٩١-٢٠١٠)

السنة	معدل التغطية (%)		معدل التبادل		معدل تغطية الصادرات (%)		معدل التغطية للواردات (%)		التجارة الخارجية	السنة
	الواردات	الصادرات	الواردات	الصادرات	الواردات	الصادرات	الواردات	الصادرات		
1991	68.98	2.55	71.53	100.00	100.00	100.00	3.70	68.98	2.55	71.53
1992	52.03	1.15	53.18	59.99	87.63	52.57	2.22	52.03	1.15	53.18
1993	58.48	1.49	59.97	68.88	110.80	76.31	2.55	58.48	1.49	59.97
1994	41.64	0.96	42.60	62.19	92.14	57.30	2.30	41.64	0.96	42.60
1995	47.65	2.19	49.84	124.39	118.86	147.85	4.60	47.65	2.19	49.84
1996	42.34	1.37	43.71	87.53	121.60	106.43	3.24	42.34	1.37	43.71
1997	35.82	1.32	37.14	99.65	121.30	120.87	3.68	35.82	1.32	37.14
1998	33.96	1.17	35.13	93.27	126.54	118.02	3.45	33.96	1.17	35.13
1999	23.80	0.76	24.55	85.93	92.20	79.23	3.18	23.80	0.76	24.55
2000	46.06	2.12	48.18	124.26	177.24	220.24	4.59	46.06	2.12	48.18
متوسط الفترة الأولى	45.08	1.51	46.58	90.61	114.83	107.88	3.35	45.08	1.51	46.58
2001	77.32	0.89	78.21	31.17	287.65	89.67	1.15	77.32	0.89	78.21
2002	86.00	0.99	87.00	31.32	309.84	97.06	1.16	86.00	0.99	87.00
2003	74.11	1.30	75.41	47.37	272.34	129.00	1.75	74.11	1.30	75.41
2004	108.05	1.08	109.13	26.94	383.64	103.33	0.99	108.05	1.08	109.13
2005	118.24	0.65	118.89	14.94	457.41	68.36	0.55	118.24	0.65	118.89
2006	109.72	0.45	110.17	11.13	367.70	40.93	0.41	109.72	0.45	110.17
2007	147.66	0.93	148.59	17.00	565.89	96.22	0.63	147.66	0.93	148.58
2008	129.29	0.34	129.63	7.21	776.40	56.00	0.27	129.28	0.34	129.63
2009	103.07	0.40	103.46	10.45	656.12	68.58	0.39	103.07	0.40	103.46
2010	111.82	0.36	112.18	8.68	739.21	64.20	0.32	111.82	0.36	112.18
متوسط الفترة الثانية	106.53	0.74	107.27	20.62	481.62	81.34	0.76	106.53	0.74	107.27
متوسط الفترة ككل	75.80	1.12	76.93	55.62	298.22	94.61	2.06	75.80	1.12	76.93

المصدر: حسب من البيانات الواردة بالجولين (١)، (٧).

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0	0	542400	374172.68	13832	1991
-0.52723	-0.07472	630200	327881.83	7271.17	1992
1.10133	0.041737	708900	414556.48	10555.84	1993
-0.5866	-0.0221	827900	344751.12	7926.12	1994
0.94765	0.118711	933400	444728.2	20450.15	1995
0.07274	-0.0406	1074500	454991.76	14721.84	1996
-0.0059	0.01037	1267000	453855.66	16718.1	1997
0.154155	-0.00309	1394300	473479.65	16324.65	1998
-2.3195	-0.09685	1449700	344979.3	10959.04	1999
-31.8212	-1.95049	1439700	663191.1	30463.95	2000
-3.29845	-0.2017	1026800	429658.5	14922.29	
-8.66074	0.37863	1392000	1076308.4	12403.3	2001
-1.88701	-0.02322	1348000	1159336.7	13424.88	2002
-5.19728	0.163664	1375000	1019010.2	17843.8	2003
-8.95588	0.076345	1328500	1435458.8	14293.75	2004
2.319768	-0.04066	1447500	1711511.1	9455.4	2005
1.734794	0.019607	1254000	1375828.5	5661.44	2006
4.119837	0.042486	1434000	2117399.1	13308.98	2007
0.968811	-0.00684	2247000	2905042.5	7746.25	2008
-3.33343	0.012887	2382000	2455028.9	9486	2009
3.397708	-0.00663	2473500	2765919.2	8879.64	2010
-1.54934	0.061627	1668150	1802084	11250.34	
-2.4239	-0.07004	1347475	1083195	13173.74	

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F	R <sup>2</sup>	(Y)
3.39	0.30	$\ln \hat{y} = 9.45 + 0.46 \ln x$ (4.01) (1.84)
1.10	0.12	$\ln \hat{y} = 16.84 - 0.28 \ln x$ (6.92)** (-1.05)
0.04	0.002	$\ln \hat{y} = 14.47 - 0.05 \ln x$ (6.45)** (-0.19)
38.94	0.83	$\ln \hat{y} = 8.78 + 0.44 \ln x$ (13.13) (6.24)
2.54	0.24	$\ln \hat{y} = 19.61 - 0.57 \ln x$ (5.92)** (-1.59)
1.35	0.07	$\ln \hat{y} = 18.45 - 0.51 \ln x$ (4.46)** (-1.16)

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-United Nations, Food and Agriculture Organization – Trade Year Book – Rome, different Volumes.

## SUMMARY

### Features and the Development of Libyan Foreign Agricultural Trade

Soad Saleh Mykhaal, Dina Mohamed El-Shaer, Gaber Ahmed Bassyouni and Mohamd Kamal El-Etr

The main objective of this paper is to identify the features and the development of Libyan foreign agricultural trade by addressing the following objectives: (1) studying and analyzing of the Libyan foreign agricultural trade structure, (2) calculate the efficiency of Libyan foreign agricultural trade standards. Descriptive and theoretical statistical analysis has been used to achieve the objectives of this paper and to access to the results that serve the objectives of the study.

A review of the features and the evolution of Libyan foreign agricultural trade showed increasing the gap value of the Libyan agricultural trade balance from approximately 360.4 million dinars in 1991 to about 2757 million dinars in 2010 with an annual growth rate of about 13% at 0.01 level of significance. A review of the results of indicators of Libyan foreign agricultural trade efficiency showed decreasing of these indicators during the second period (2001- 2010) compared with the first period (1991- 2000). These indicators consisted in the following: average per capita from the Libyan foreign agricultural trade, the rate of Libyan agricultural exports coverage to Libyan agricultural imports, rate the performance of Libyan foreign agricultural trade sector and finally average propensity to agricultural import medium and the tendency for agricultural export. But for the indicator of the rate of Libyan agricultural

economic dependency to the outside world, it shows increasing this indicator during the second period (2001- 2010) compared with the first period (1991- 2000). It also turns out that the Libyan economy is subject to the phenomenon of instability in foreign agricultural trade, which could lead to a negative signal to the values of the tendency emergence of marginal agricultural export and marginal propensity to agricultural import for some years, and then there will be difficulty to calculate geometric mean of the values of this tendency, is to overcome this phenomenon in this study by the marginal propensity account to find the relationship of simple regression between each of the national agricultural income as an independent variable and value of foreign agricultural trade (or the value of Libyan agricultural exports or imports) as dependent variable in the model of double logarithm, which indicate that decreasing value of agricultural export coefficient during the second period (2001-2010) compare with the first period (199 -2000), this result explains that Libyan economy direction to raise agricultural imports during second period (2001-2010) compare with the first period (199 -2000).

**Key words:** Libyan Republic – balance of agricultural foreign trade - indicators of Libyan agricultural foreign trade efficiency.