(1)   **(2)**

(3)

33   .

/   **0.43**

(%19   %64)

%77   .(   )

0.20   .

.

:

.

---

(1) و(2) و(3)

.   **30612** .

379

Estimation of Raw Milk Cost and Marketing Margins in Dairy Farms of Jordan

M. Al-Tarawneh[1]; **A. Abed Al-Aziz**[2]
and M. Yasin[3]

ABSTRACT

The study is based on the cost of milk and marketing margins in dairy farms in Jordan and estimated cost function. This study is based on a cross section data from 33 dairy farms. In the study it was determined that the cost of raw milk production in dairy farms is 0.43 JD/ Kg. and the most important cost factors are feed cost, depreciation contributing 64%, 19%, respectively of total production cost. It was found that marketing margins of milk were 77%, econometric estimation of raw milk function using different forms showed that the linear model is superior to the other forms. The elasticity of the estimated cost function is found to be 0.20.

Key words: Dairy cattle, Milk cost, Marketing margins, Cost function, Cost elasticity.

[1], [2], [3] Department of Economic Agriculture, Faculty of Agriculture, Damascus University, Syria.

%90   Km^2 89.2

:

%2.6   .(UNIDO, 2008)

% 55   2008
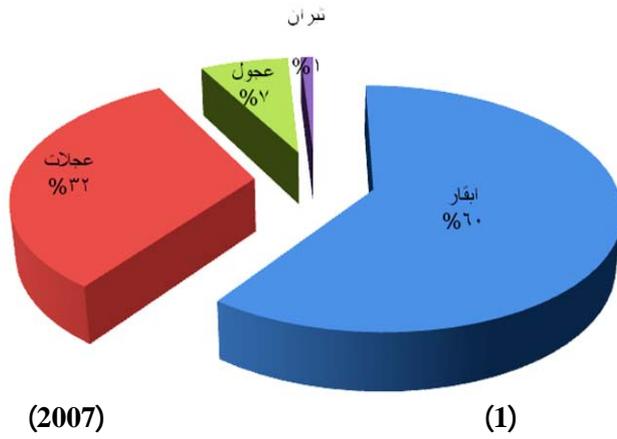
.(DOS, 2008)

200   91   2007

376

%95.05   %4.95   48540

596

292822   .   3000

%76   221938   2007

2007   %63

.(2008   ) .   /   /   76

.%1   %60

.(   )

(2007)   (1)

381

.

/   3-2.50

.(Alqaisi, 2009)

.

Cross –Section Data

)   62   (   )
    %64   40   (
                                                    33
.2009

.　　　　　　　　　　　　　　　　　　　　　　　T F

:　　　　　　　　　　　　　　　　　　:

44

28　　　　　　　　　　　　　%65

/　5498.4

(1)　　　　　　　/　20.4

.

(1)

12	150	44	(　)
5	100	28	(　　)
3500	7000	4.5498	(　)
40.11	90.22	20.4	(　)

(2003　　)　　270 :　　　　　　　　　　　　:

.(2　　　)　　　　　　　　　　　　　　　:

)　　　　　　　　　　　　:　　　　　　-1

/　　　　　　　　　　　　　　　　(

%24.5　　　　　　　/　　0.10　　　　　　　　　.

.(　　　　64 =　　1)

)　　　　　　　　　:　　　　　　-2

(

/　　0.33　　　　　　　　　.

.　　　　　　　　%75.5

67494.20

51006.20　　　16488

2410.5

383

/ 0.43

0.10   %75.5   / 0.33

.   %24.5   /

(/   )   **(2)**

			/	/	
					:
%18.8	%24.8	%77	12698		-
%2.7	%3.5	%11	1820		-
%2.5	%3.3	%10.4	1690		-
%0.4	%0.5	%1.6	280		-
%24.5	**%32.3**	**%100**	**16488**	**0.10**	**(1)**
					:
%2.8	**%3.7**	**%11.4**	**1892**		-
%1.2	%1.6	%5	840		
%1.19	%1.5	%4.8	800		
%0.37	%0.5	%1.5	252		
%64	**%84.7**	**%262.2**	6.43235		-
%2.2	**%2.9**	**%9**	**1500**		-
%2.2	**%2.9**	**%9**	**1500**		-
%0.03	**%0.03**	**%0.09**	15		-
%4.3	**%5.7**	**%17.3**	2863.6	**%6**	-
%75.5	**%100**	**%309**	**51006.20**	**0.33**	**(2)**
			67494.20	**0.43**	**/(2+1)**
			2410.5		**/**
			0.43		**/**

28   :

64 =   270   5498.4 = ( )

:   :   :

% 84.7   %64

%19

.

384

: :

69280.9

. 80380.7 76397.7

%15

25391.1

18291,5

64 317.9

. (3) .

(3)

/) (	/) (	/) (	
69280.9	69280.9	69280.9	
26.3	0	16,8	
7798.2	0	5000	
2807.3	0	1800	
561	0	100	
312	0	200	
80380.7	**69280.9**	**76397.7**	**/**
1840.6	**2474.3**	**2728.5**	**/**
29374.5	**18274.7**	**25391.1**	
672.6	**652.6**	**906.9**	**/**
12886.5	**1786.7**	**8903.5**	**/**
295	**63.8**	**317.9**	**/**

44 28 :

– = – =

: :

/ 0.43

) / 67494.20

. / 2410.5 (28

/ 0.43

.

/ 0.39

0.43) 0.04

.(4) %10 (0.39

(4)

( )	( )	
69280.9	**76397.7**	**(1) (/)**
67494.20	67494.20	(2) (+) (/)
0	16.8	(3) (/)
0	5000	(4) (/)
0	1800	(5) (/)
153957.72	153957.72	(6) (/)
0.43	**39.0**	(/) {(6 /(5+4+3)-2)}
0.02	**06.0**	(/) (-)

.(1= 100) 0.45 :

: :

) .

.(2003

0.77 / 0.35

(5)

%177.8

.

(5)

/	
0.45	**(1)**
0.80	**(2)**
0.35	**(1-2)**
77.78%	%

/ 0.80 :

:   :

Exponential model   linear model   :
Logarithmic   model
Cross-section data
(Y)   (TC)
.

(6)

Linear
F   Model
%1
0.166   0.166 (R^{-2})   .

(t)   .
.%5   Y

.

(6)

F	R^{-2}	R^2	R	
7.381 (0.011)**	0.166	0.192	0.439	**linear model** **TC=0.345 + 0.005Y** **t (10.255)*** (2.717)**** **sig 0.011 0.000**
7.126 (0.012)**	0.161	0.187	0.432	**Logarithmic** **model** **Log(TC) = 0.176 + 0.090 Y** **t (1.816)* (2.669)**** **sig 0.079 0.012**
7.246 (0.011)**	0.163	0.189	0.435	**Exponential model** **TC= 0.353 +0.011Y** **t (12.858)*** (2.692)**** **sig 0.000 0.011**

.   =Y   .   = TC
.   =R^{-2} .   = R^2 .   =R

:

E=b₁ Y⁻ / TC⁻, E= 0.005 × (17.40 /0.43), E=0.20

1

.

33

:

. /   0.43   –

%77   /   0.35   –

.

–

0.166 (R⁻²)   .

0.166

.

.   .0.20   –

:

.   –

–

.

.   –