



60

( )

120

-

/ / 500  
(1)

/ 100  
%3  
-25 ) 4 (ad lib.)  
.( 30  
%1

3	2	1	
25	45	42	
30	42	45	
-	10	-	
12	5	10	
30	-	-	
2	2	2	
1	1	1	
/ 1	-	-	

3

2 1

( )  
24

( )

.( )  
 % 10 Parathroid saibromethrin  
 ( 6 -3 ) ( )  
 ( 6 6 )

(General Linear Model- GLM)

120 60

(2001) SAS

(Random Effects)

(1971 Thompson Patterson ) (Restricted Maximum Likelihood-REML)

:

$$Y_{ijklmn} = \mu + B_i + A_j + S_k + T_l + R_m + e_{ijklmn}$$

. m l k j i n :Yijklmn

:μ

:Bi

:Aj

: Sk

: Tl

: Im

: eijklmn

.(40)

.σ<sup>2</sup>e

(Paternal half-sibs)

(REML)

$$h^2 = 4\sigma^2_s / \sigma^2_p$$

:

: h<sup>2</sup>

.(Sire)

: σ<sup>2</sup> s

: σ<sup>2</sup> p

Least Square and Maximum Likelihood Computer Program

( )

120 60

120 :  
 ( 350) ( 40) 60 :  
 G.p. = BLUP120 - BLUP 60 :  
 :G.p.  
 :BLUP120  
 :BLUP 60

107.56 54.92 120 60

AL- 1995 Mavrogenie 1995 1992 (3 )  
 . ( 1999 1999 1996 AL-Rawi)  
 : 60 1997 Rawi  
 (P<0.01) (2) -  
 (3 60) ( 48.75) ( 59.98)

60 (P<0.01)  
 60.22 52.78 49.25 4 3 2

60

60 (P<0.01) (2)  
 ( 45.79) ( 61.78)

60 (3 )  
 (P<0.05)  
 52.58 58.34 60

Ramsey 1972 Glover)  
 : ( 1994  
 -  
 ( 100.25) ( 116.05)

60 120

120 60  
(P<0.01)

120  
( 2 )

( 98.24) ( 121.45) 120

60  
7.16

(.3 2 )

(1999 )

120 60

.2

120	60		
** 3482.58	** 1923.25	1	
** 4834.51	** 2490.33	2	
** 6722.69	** 3002.86	3	
** 3311.78	* 1598.45	1	
78.815	65.023	492	

(P<0.01) \*\* (P<0.05)\*

					:	-
		0.28		60		
Mavrogenis	(1983)	(1990) Papachristoforou	Carriedo	Mavrogenis (1982)	Mavrogenis	(1999)
						(1988)
		0.24		120		
Mavrogenis	1986	(1999) Pokatilova	1983	(1988 ) Hossamo	(1982) Mavrogenis	
				Carriedo )		
				(1990 Papachristpforou		
				120	60	
					:	-
	(BLUP)			(4)		
( 12.67)	( 5.09-)	( 4.55)	(3 )			60
	11924					11908 11913
						120
						( 11.57) 11949
					:	-
				(4)		
	( 8.26)					11913
		60		120		
		( 6.48 -)				11949
60						
						120

120 60 ( ) ± .3

* ±			
120	60		
4.48 ± 107.56	3.44 ± 54.92	500	
b 3.81 ± 100.25	b 2.78 ± 48.75	134	
a 4.03 ± 116.05	a 3.68 ± 59.98	366	
( )			
c 3.66 ± 102.03	c 2.08 ± 49.25	215	2
b 3.58 ± 107.59	b 1.97 ± 52.78	189	3
a 4.82 ± 116.37	a 3.63 ± 60.22	96	4
b 5.21 ± 115.38	b 2.57 ± 56.37	240	
a 4.18 ± 121.45	a 1.92 ± 61.78	121	
c 3.12 ± 98.24	d 2.78 ± 45.79	64	
b 3.78 ± 113.67	c 3.06 ± 49.68	75	
b 4.01 ± 106.63	a 2.55 ± 52.58	346	
a 3.69 ± 113.79	b 1.08 ± 58.34	154	

\*

60

( )

.4

120

BLUP 120		BLUP 60		
12.67	11924	4.55	11913	1
12.56	11960	4.52	11924	2
12.42	11989	4.33	11960	3
12.30	11913	4.04	11989	4
12.13	11903	4.03	11977	5
11.78	11977	4.00	11978	6
10.69	11925	3.97	11981	7
10.54	11978	3.97	11903	8
10.42	11962	3.67	11990	9
9.47	11990	3.44	11960	10
-	-	-	-	-
8.71 -	11976	3.21 -	11921	31
8.89 -	11921	3.28 -	11976	32
9.15 -	11946	3.60 -	11983	33
9.46 -	11939	3.78 -	11946	34
9.69 -	11958	4.07 -	11939	35
10.02 -	11983	4.31 -	11958	36
10.43 -	11929	4.56 -	11929	37
10.75 -	11972	4.81 -	11972	38
11.04 -	11988	4.88 -	11988	39
11.57 -	11949	5.09 -	11908	40

.5

. 120 60

( )		
8.26	11913	1
8.12	11924	2
8.10	11903	3
8.09	11989	4
8.04	11960	5
7.78	11977	6
6.75	11962	7
6.72	11925	8
6.57	11978	9
6.03	11990	10
-	-	-
5.50 -	11976	31
5.55 -	11946	32
5.61 -	11921	33
5.62 -	11958	34
5.68 -	11939	35
5.71 -	11983	36
5.87 -	11929	37
5.94 -	11972	38
6.16 -	11988	39
6.48 -	11949	40

.1995.

.102-95:(1) 5

.1999.

.1996 .

.1999 .

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### **GENETIC PERSISTENCY ON MILK PRODUCTION IN LOCAL AND TURKISH AWASSI SHEEP**

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### **ABSTRACT**

Statistical analysis was used on 500 milk production records of Awassi sheep at the Sheep and Goat Research Station, State Board for Agricultural Research, the analysis was containing (134 Iraqi Awassi) and (366 Turkish Awassi ) on period of 2008 – 2009.

The aim of this investigate the estimation of genetic persistency on milk production from the difference between genetic estimation to produce 120 days

from genetic estimation to produce first 60 days of milk season in Local & Turkish Awassi sheep after studying the effect of fixed factors and estimation heritability to produce 60 and 120 milk day.

The over all mean of milk production at the first 60 days and 120 days of milk season was 54.92 and 107.56 kg respectively.

Research result shows that all of studied fixed factors ( breed dam age at calving calving season and kind of calving ) were significant effect on milk production in 60 and 120 days.

The heritability of milk production at 60 and 120 days was 0.28 and 0.24 respectively.

There was a large variation in genetic values estimation of rams used in this research at 60 and 120 days. On the other hand the maximum estimation of genetic persistency was 8.26 kg , while the minimum was 6.50 kg and depending of those estimations will affair on increasing genetic gain and economically later in the flock.