

()

*

(/ / : // :)

x x

(P<0.01)

(/) x
(/)

(P<0.05)

(P<0.05)

(P<0.01)

(P<0.05)

x

x

(Farid, 1988; Kashan, 1993;
Kashan et al, 2005; Miraei-Ashtiani et al., 2003;
.Saatchi et al., 2005)

)

(

/)

×(St Croix White)

(/

.(Godfrey & Weis, 2005)

(Miraei-Ashtiani et al.,

(2005) Satchi et al. .2003)

.(Farid, 1988)

(2002) Momani Shaker et al.

× ×

× (MM) ×

× (GG)

× (GM)

(MG)

± /

/ ± /

/ / ×

×

(2008) Vacca et al.

×

(Unal et al., 2006; Kashan, 1993; Kashan et al., 2005; Bunch et al., 2004; burke et al., 2003; .snowder et al., 2003)

(Pelibuey)

/ /

×

×

(Gutiérrez et al.,

.2005)

(p<0.0001)

× (p<0.01)

(P<0.01)

GM GG × MG (Planimeter)

×

SAS
(GLM)

$$y_{ijk} = \mu + G_i + year_j +$$

$$a(age_{ijk} - \bar{age}_{...}) + b(w_{ijk} - \bar{w}_{...}) + e_{ijk}$$

(2002) Momani Shaker et al.

$$y_{ijk} = \mu + G_i + year_j + a(age_{ijk} - \bar{age}_{...}) + b(w_{ijk} - \bar{w}_{...}) + e_{ijk}$$

/ ± / ± /

(Godfrey & Weis, / ± / / ± /
(2005) Phillips et al. .2005)

()

MM	MG	GM	GG	
()	()	()	()	*
/ ± /	/ ± /	/ ± /	/ ± /	()
/ ± /	/ ± /	/ ± /	/ ± /	()
/ ± /	/ ± /	/ ± /	/ ± /	()
/ ^b ± /	/ ^a ± /	/ ^a ± /	/ ^a ± /	()
/ ^b ± /	/ ^a ± /	/ ^a ± /	/ ^a ± /	()
/ ^b ± /	/ ^{ab} ± /	/ ^a ± /	/ ^a ± /	()
/ ± /	/ ± /	/ ± /	/ ± /	()
/ ± /	/ ± /	/ ± /	/ ± /	(%)
/ ± /	/ ± /	/ ± /	/ ± /	(%)

.(p<0.05)

*

**

Godfrey & Weis (/ %) × (/ %) (2005) (2004) Gokdal et al. (Karakas) (Ile de France) Cloete et al. (Merino Landsheep) (SA Mutton Merino) (P<0.05) MG MM GM GG (p<0.01) × (±) El Fadili (/) (2001) et al. (GM / MM) (Timahdite) × (D'man) × (Merinos precoce) × (Gutie´rrez et al., 2005) (Momani) Shaker et al., 2002) (2005) Kashan et al. (/ %) ×

(mm)	(%)	()	
/ ^a ± /	/ ± /	/ ^a ± /	GM
/ ^b ± /	/ ± /	/ ^a ± /	GG
/ ^{ab} ± /	/ ± /	/ ^a ± /	MG
/ ^a ± /	/ ± /	/ ^b ± /	MM

(P<0.05)

GG MG

(2006) Cloete et al.

/ /)

/

Momani (2005) Godfrey & Weis (

(2002) Shaker et al.

(P<0.01)

(P<0.05)

/

.()

×

/ /

(2005) Kashan et al.

× ×

()

(p<0.05)

.(p<0.01)

(2005) Gutierrez et al.

:
 .()
 ×
 / /)
 ()
 .(p<0.05) (/ /)
 Momani Shaker et al. (2002)
 / × (/) /
 / × (/)
 (/)
 (2004) Gokdal et al.
 .(/ ± / / ± /)

(P<0.05)

(p<0.05)

MG GM GG

MM

Godfrey & Weis

(2005)

() × ()

(P<0.01) × (p<0.01)

()	()	()	()	()	()
/ b _± /	/ b _± /	/ a _± /	/ a _± /	/ ± /	/ a _± /
/ a _± /	/ a _± /	/ b _± /	/ b _± /	/ ± /	/ ab _± /
/ a _± /	/ a _± /	/ b _± /	/ ab _± /	/ ± /	/ b _± /
/ b _± /	/ ab _± /	/ ab _± /	/ b _± /	/ ± /	/ b _± /

MM	MG	GM	GG	() **
/ ± /	/ ± /	/ ± /	/ ± /	(%)
/ ± /	/ ± /	/ ± /	/ ± /	*** ()
/ ± /	/ ± /	/ ± /	/ ± /	
/ ± /	/ ± /	/ ± /	/ ± /	
/ b _± /	/ a _± /	/ a _± /	/ a _± /	
/ ± /	/ ± /	/ ± /	/ ± /	

(p<0.05)

*

**

(%)	(%)	(%)	
/ ± /	/ ± /	/ ± /	GG
/ ± /	/ ± /	/ ± /	GM
/ ± /	/ ± /	/ ± /	MG
/ ± /	/ ± /	/ ± /	MM

×

(2005) Kashan et al. (Vacca et al., 2008)

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