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Annual Meeting of the
European Association

For Animal Production

HERAKLION CRETE ISLAND GREECE

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Effect of weaning age and rearing systems on Iberian piglets

S36

FREE COMMUNICATIONS
IN PIG PRODUCTION
Nº7

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WEANING

MIXED PIGLETS

SEPARATION OF THE SOW

CHANGE MILK FOR SOIL FOOD

NEW FACILITIES AND ENVIRONMENT

ADAPTATION
ANIMAL WELFARE



PRODUCTION RATES

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 INFLUENCE OF REARING SYSTEMS
IN POST WEANING IBERIAN PIGLETS
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 INFLUENCE OF WEANING AGE IN
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90 Iberian piglets



Study period: 21-63 days



Weaning age: 28 or 42 days



Body weight (Kg)

Daily average gain (Kg/d)

Conversion ratio (Kg food/ Kg weight)



Three rearing systems
one weaning system

DIFFERENT REARING SYSTEM (DIFFERENTE CONDITIONS)

INTENSIVE		TRADITIONAL		OUT-DOORS	
28	42	28	42	28	42
(n=15)	(n=15)	(n=15)	(n=15)	(n=15)	(n=15)

SAME WEANING SYSTEM (SAME CONDITIONS)

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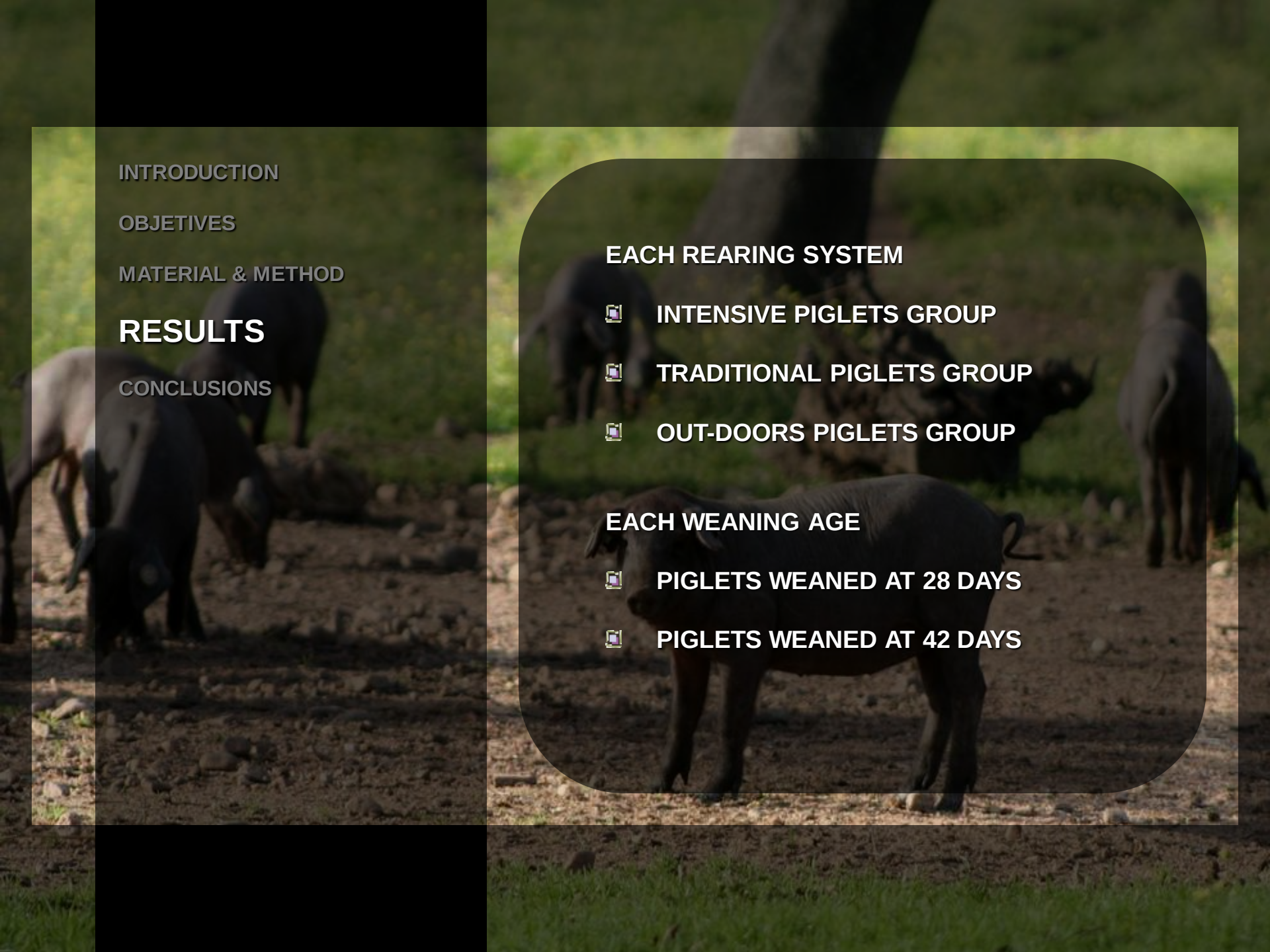
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REARING SYSTEMS

	INTENSIVE	TRADITIONAL	OUT-DOORS
DIMENSIONS	3,6 m ²	6,6 m ²	1,6 Ha
ENVIRONMENT	HEATING	STRAW	STRAW
SUCKLING	CONTINOUS	INTERMITENT	FREE
SOIL FOOD	21 days	21 days	21 days
BEHAVIOUR	LITTERMATES	NEIGHBORS	NATURAL

The background of the entire slide is a photograph of a piglet in a field. The piglet is dark-colored and is standing in a muddy, rutted area. In the background, there are green grassy fields and a large tree trunk. The image is slightly blurred, giving it a soft, natural feel.

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- 📖 INTENSIVE PIGLETS GROUP
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EACH WEANING AGE

- 📖 PIGLETS WEANED AT 28 DAYS
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INTENSIVE PIGLETS GROUP

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W.28 _d	G ₂₈	7,21	± 0,22
	G ₄₂	6,90	± 0,37
W.42 _d *	G ₂₈	9,75	± 0,42
	G ₄₂	11,44	± 0,56
W.63 _d	G ₂₈	18,96	± 0,97
	G ₄₂	19,67	± 0,99

Weaning age (W.A.); Group (G.); Body weight (W., kg);
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* P < 0,024

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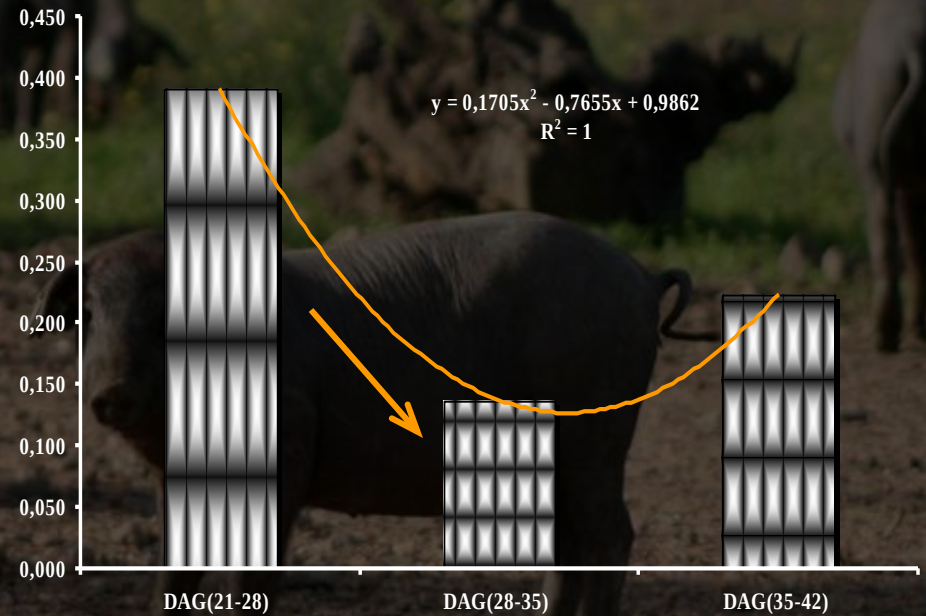
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INTENSIVE PIGLETS GROUP
(piglet weaned at 28 days)

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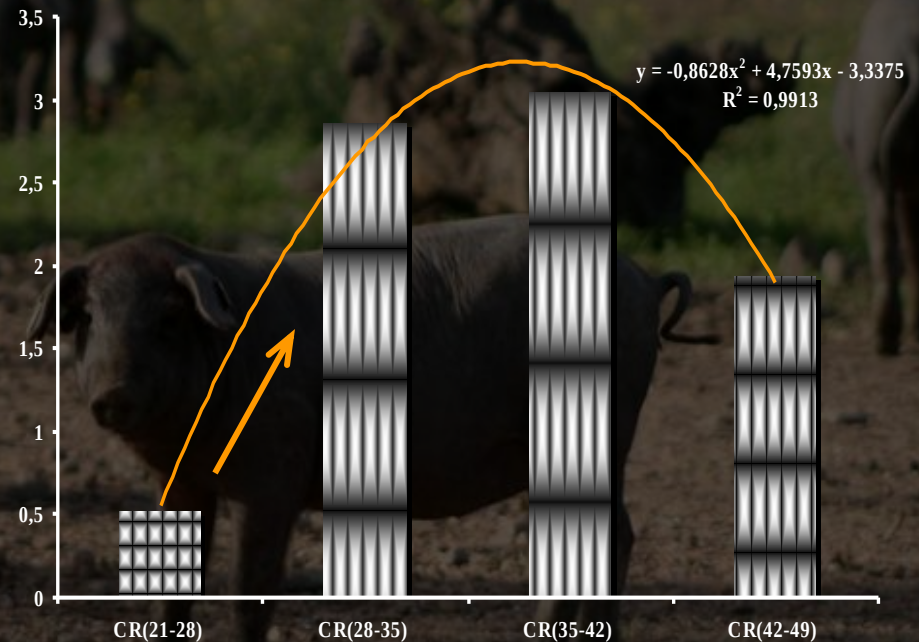
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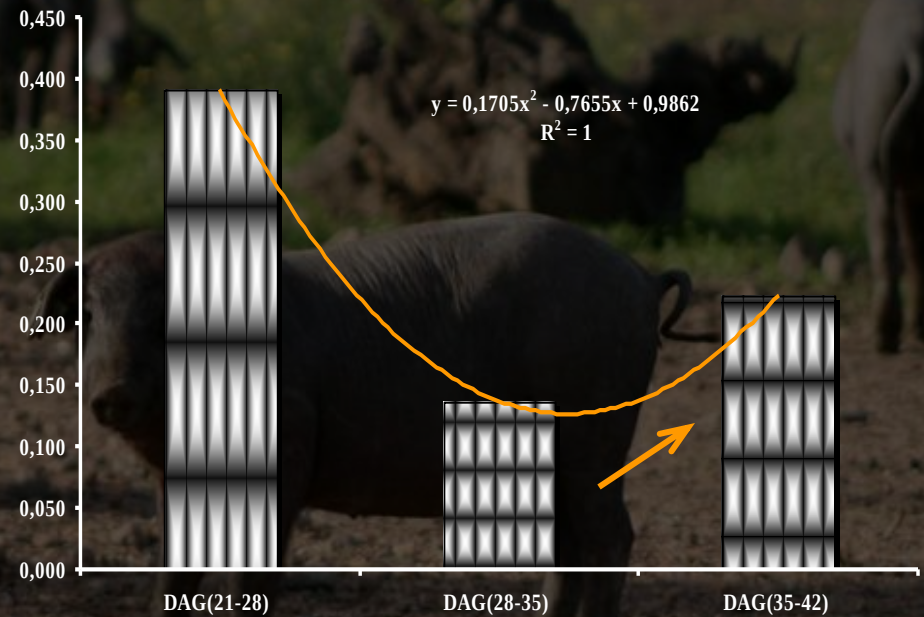
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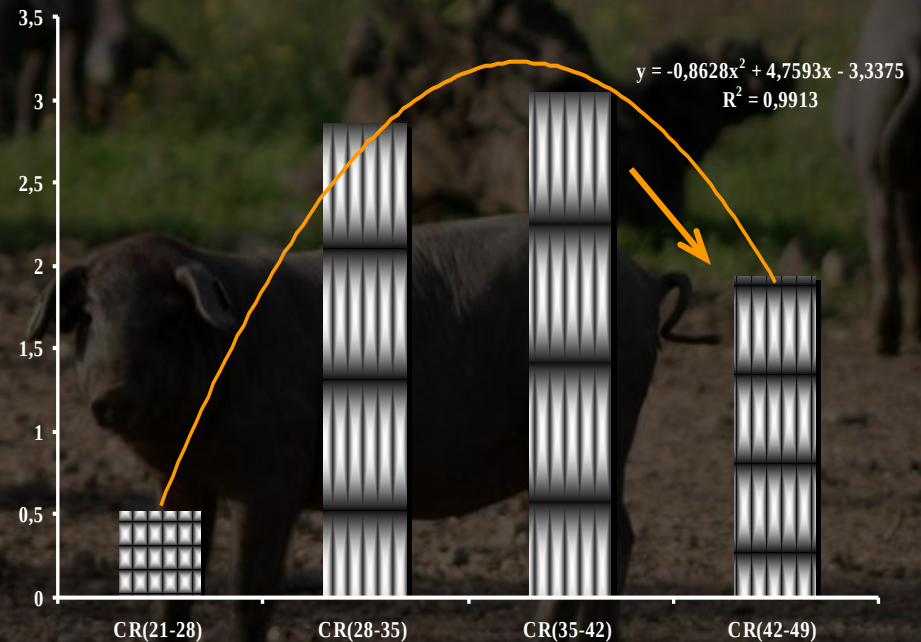
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INTENSIVE PIGLETS GROUP

SF.	G.	A	E
(42-63) _d *	G ₂₈	21,71	± 0,01
	G ₄₂	19,30	± 0,01

Soil food (SF., kg)

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TRADITIONAL PIGLETS GROUP



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TRADITIONAL PIGLETS GROUP

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	G ₄₂	5,48	± 0,26
W.42 _d	G ₂₈	9,63	± 0,64
	G ₄₂	8,96	± 0,55
W.63 _d	G ₂₈	19,38	± 0,97
	G ₄₂	18,11	± 0,9

Weaning age (W.A.); Group (G.); Body weight (W., kg);
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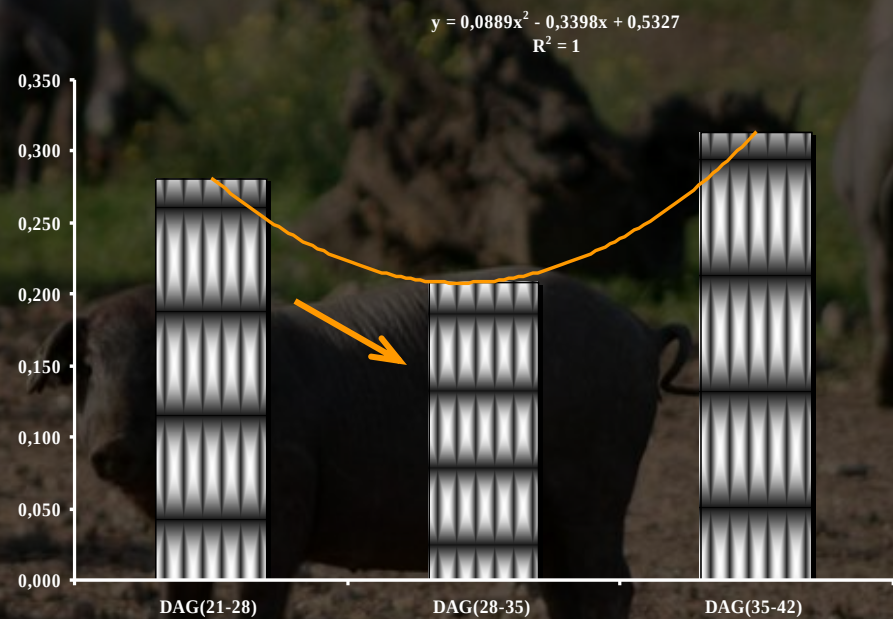
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(piglet weaned at 28 days)

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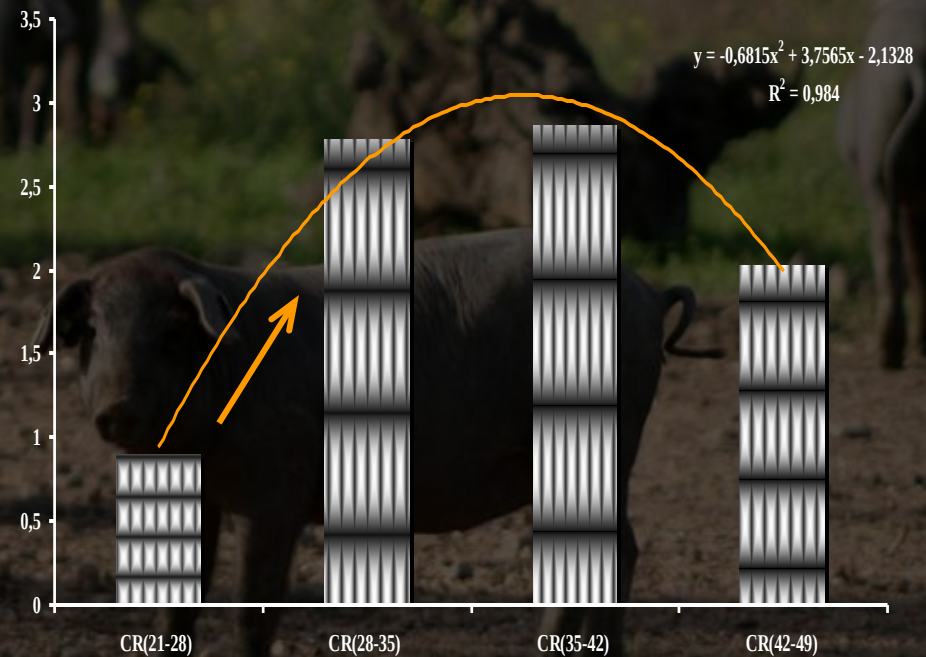
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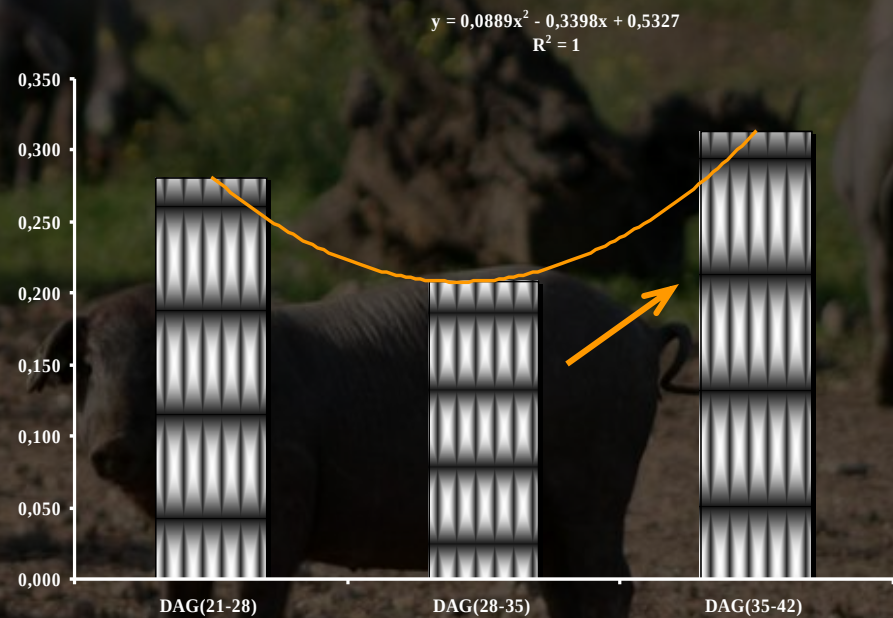
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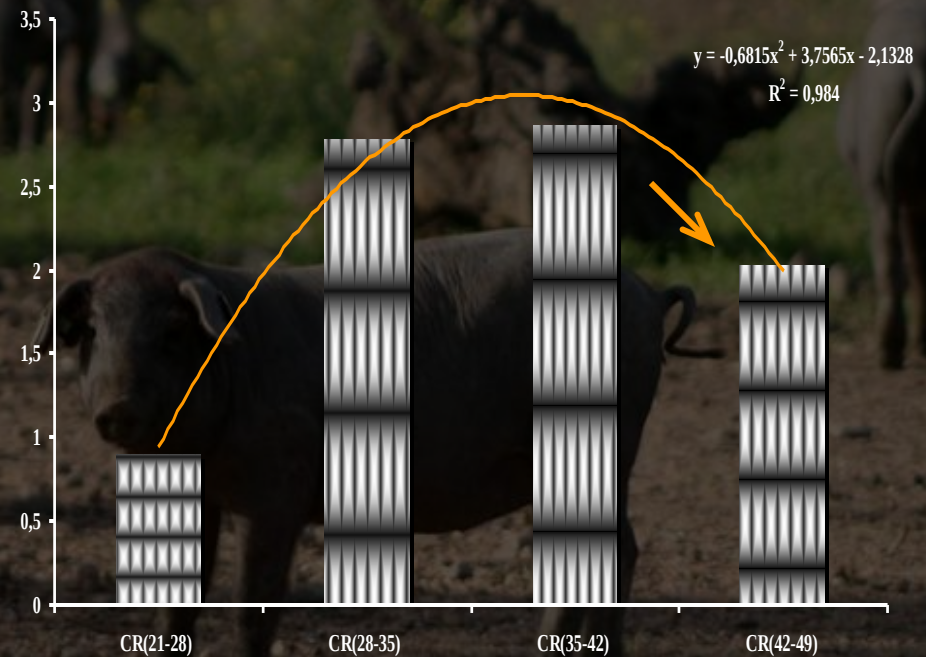
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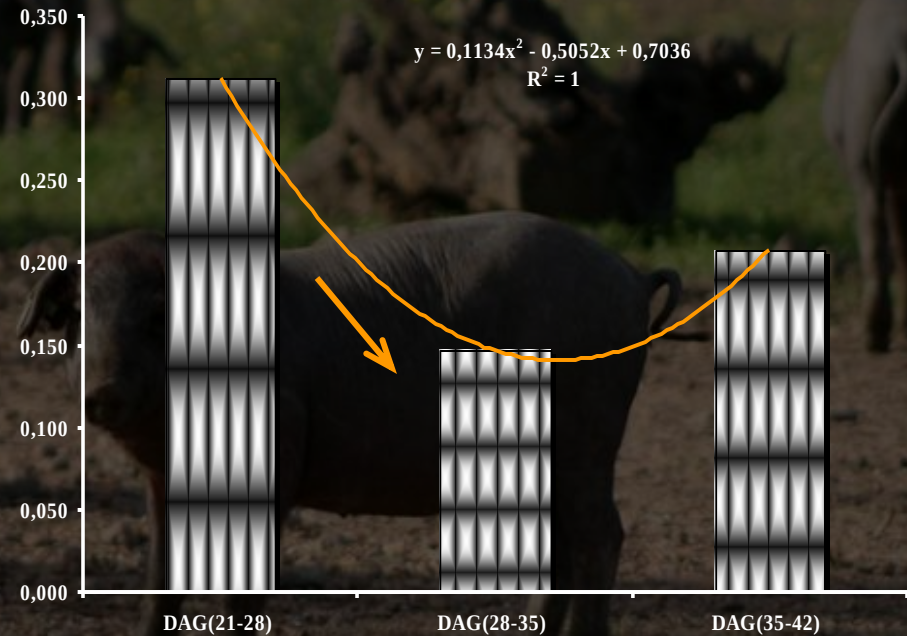
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EACH WEANING AGE

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OUT- DOORS PIGLETS GROUP (piglet weaned at 28 days)

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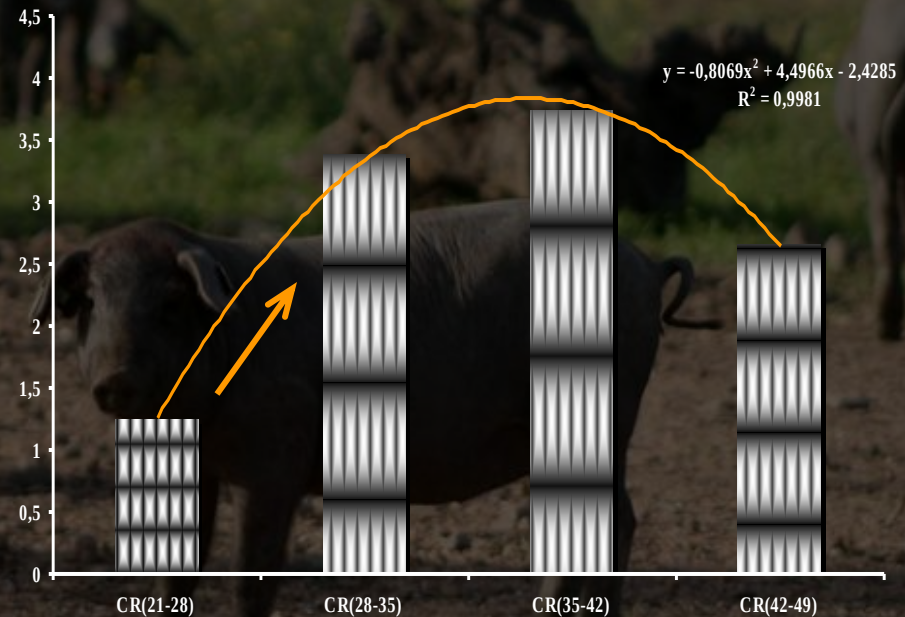
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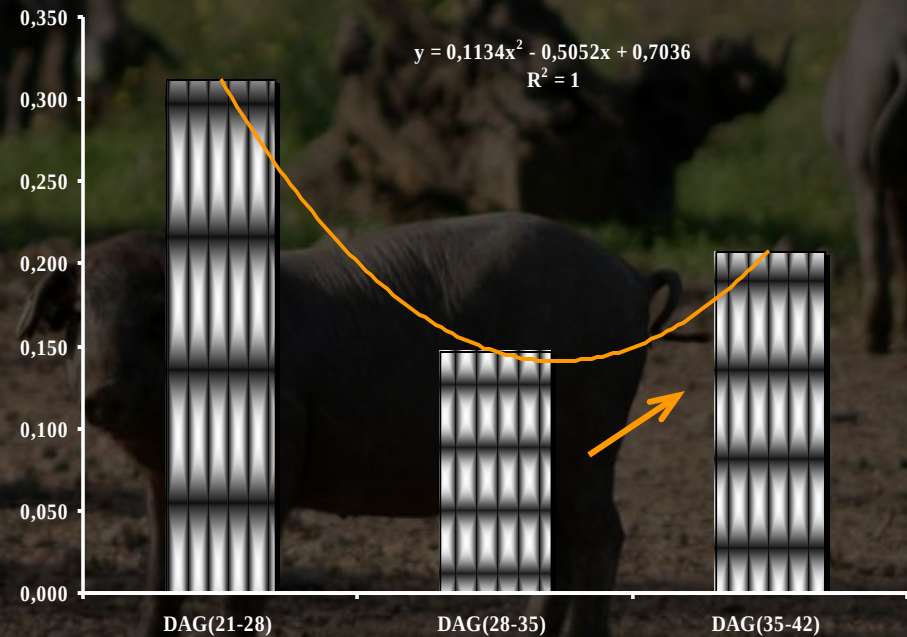
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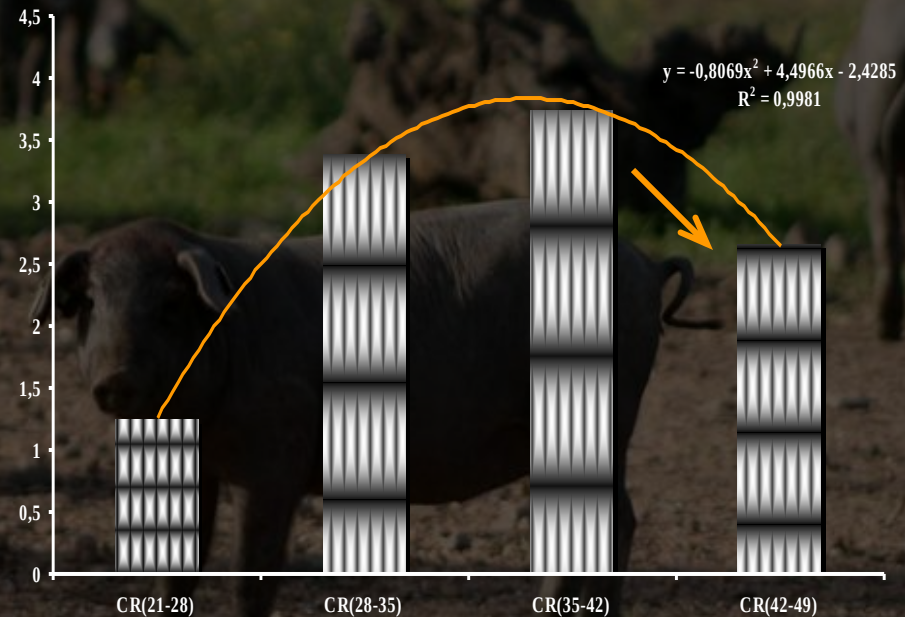
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EACH WEANING AGE

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- 📁 PIGLETS WEANED AT 42 DAYS

OUT- DOORS PIGLETS GROUP

SF.	G.	A	E
(42-63) _d *	G ₂₈	23,76	± 0,01
	G ₄₂	20,71	± 0,01

Soil food (SF., kg)

* P < 0,001

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EACH REARING SYSTEM

- INTENSIVE PIGLETS GROUP
- TRADITIONAL PIGLETS GROUP
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EACH WEANING AGE

- PIGLETS WEANED AT 28 DAYS
- PIGLETS WEANED AT 42 DAYS

D.

G.

W.A

D.W.

INTENSIVE PIGLETS GROUP

W.42 _d *	G ₂₈	9,75	1,69
	G ₄₂	11,44	

TRADITIONAL PIGLETS GROUP

W.42 _d	G ₂₈	9,63	0,67
	G ₄₂	8,96	

OUT- DOORS PIGLETS GROUP

W.42 _d *	G ₂₈	8,71	3,56
	G ₄₂	12,27	

Date (D.); Group (G.); Body weight average (W.A., kg);
difference weight (D.W); day (d)

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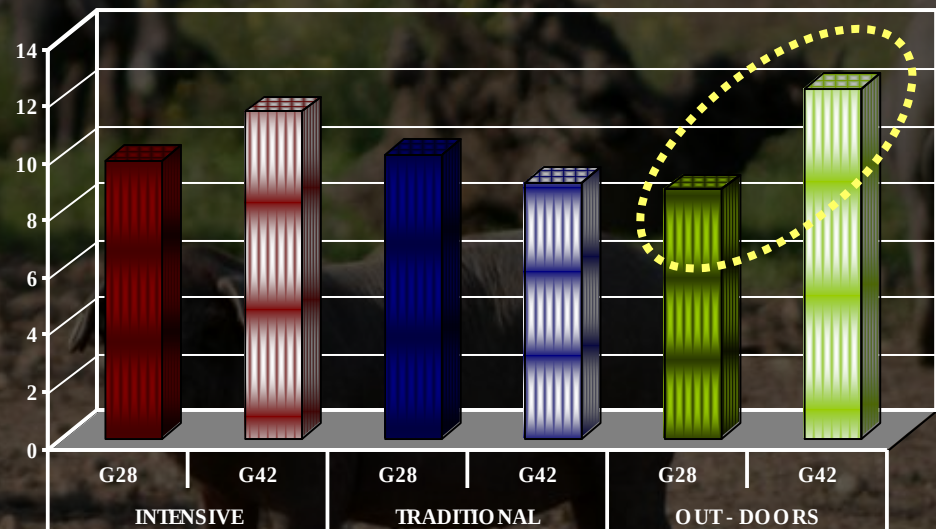
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EACH WEANING AGE

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EACH REARING SYSTEM AND EACH WEANING AGE

Weight at 42 days



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PIGLETS WEANED AT 28 DAYS

W.	G.	A	E
(63) _d *	INTENSIVE	18,95 a	± 0,97
	TRADITIONAL	19,38 a	± 0,97
	OUT - DOORS	15,05 b	± 0,99

Body weight (W., kg); Group (G.); Average (A.),
Error (E.); day (d)

* P < 0,009

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PIGLETS WEANED AT 28 DAYS

DAG.	G.	A	E
(28-63) _d *	INTENSIVE	0,335 a	± 0,02
	TRADITIONAL	0,374 a	± 0,02
	OUT - DOORS	0,252 b	± 0,02
CR.	G.	A	E
(28-63) _d *	INTENSIVE	2,62 a	± 0,23
	TRADITIONAL	2,63 a	± 0,16
	OUT - DOORS	4,26 b	± 0,99

Daily average gain (DAG., gm); Conversion ratio (CR., kg);
Group (G.); Average (A.), Error (E.); day (d)

* P < 0,001

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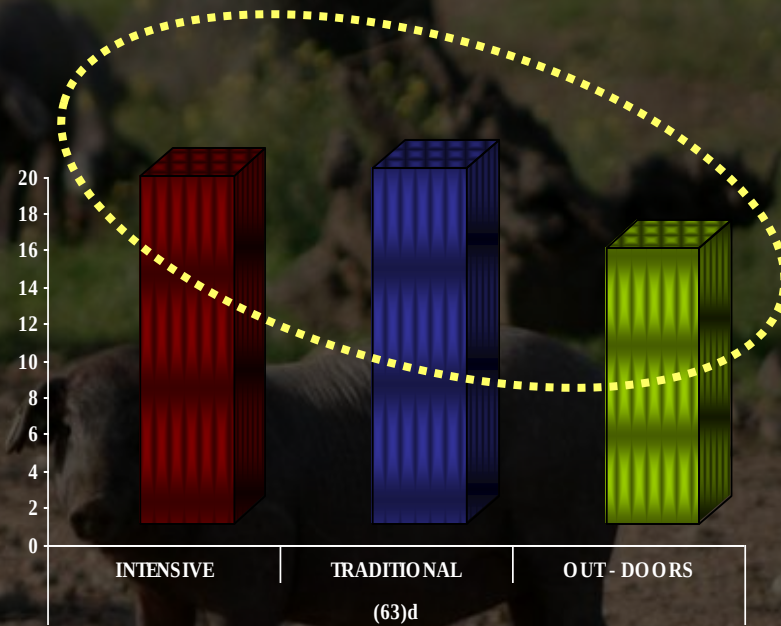
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PIGLETS WEANED AT 42 DAYS

W.	G.	A	E
(63) _d	INTENSIVE	19,67 a	± 0,99
	TRADITIONAL	18,11 a	± 0,99
	OUT - DOORS	21,16 a	± 0,77

Body weight (W., kg); Group (G.); Average (A.),
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PIGLETS WEANED AT 42 DAYS

DAG.	G.	A	E
(42-63) _d	INTENSIVE	0,391 a	± 0,03
	TRADITIONAL	0,435 a	± 0,05
	OUT - DOORS	0,423 a	± 0,02
CR.	G.	A	E
(42-63) _d	INTENSIVE	2,83 a	± 0,50
	TRADITIONAL	1,92 a	± 0,45
	OUT - DOORS	2,44 a	± 0,14

Daily average gain (DAG., gm); Conversion ratio (CR., kg); Group (G.); Average (A.), Error (E.); day (d)

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 The rearing systems has a greater influence on early weaning in Iberian piglets

 Late weaning are better than early weaning in out-doors Iberian piglets

 Early weaning has a stop during the first week post-weaning for DAG. and during two weeks for CR.

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