



2016

# GLOBAL DOHNE CONFERENCE

JULY 21 -22 | AUSTRALIA

*Celebrating*  
**50 years**

**"A must for all sheep producers"**



**"WHY The DOHNE in South America?"**

*Roberto Cardellino*

DELTA consultants



2016 Global Dohne Conference

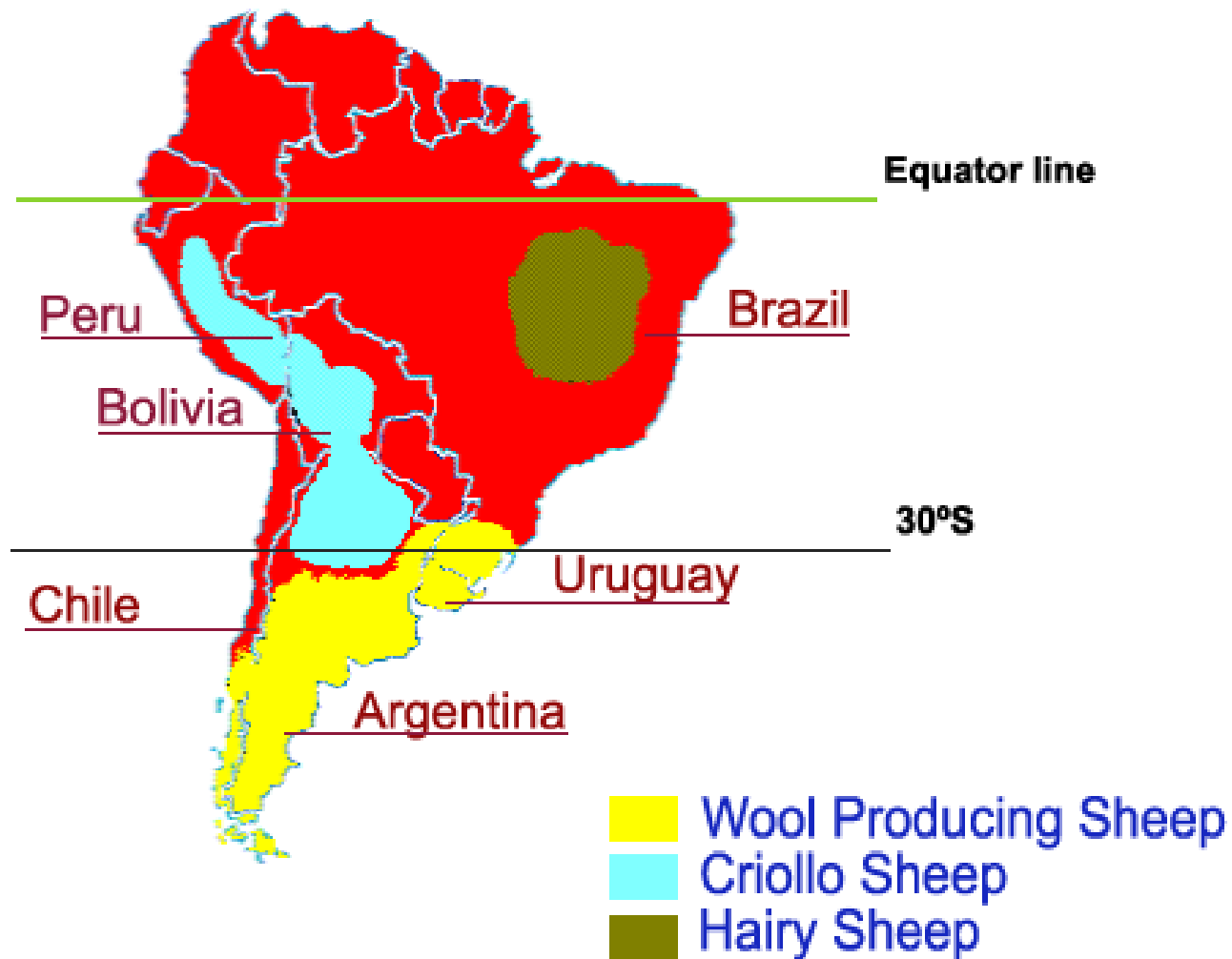
# WHY DOHNES in South America ?

“Dual Purpose with fine Wool and more meat production (Q & Q)”

Good results in different environments:

- High rainfall regions: Uruguay, southern Brasil
- Semi desert and cold: Patagonia (ARG.,CHI.,F.Is.)
- Highlands in the Andes: Perú, northern ARG

# SOUTH AMERICA: Sheep Producing areas



# Sheep population and wool production in South American countries (2015)

Country	N° sheep (mill)	Prod. System	Fine < 24.5 mic	Medium 24.6 – 32.5 mic	Coarse/Criollo > 32.5 mic	Wool Production (mkg, greasy)
<b>Argentina</b>	12.2	commercial/ smallholders	29.4	15.6	1.0	46.0
<b>Uruguay</b>	7.0	commercial	7.5	17.5	2.0	27.0
<b>Peru</b>	9.5	smallholders	0	4.0	6.4	10.4
<b>Brazil (*)</b>	3.5	commercial	1.0	8.6	1.0	10.6
<b>Chile</b>	3.0	commercial	0.2	7.6	0.2	8.0
<b>TOTAL</b>	35.2		38.1	53.3	10.6	102.0

# Expected effects of the use of Dohne on different breeds

Breed	Fertility	Weaning wt	Fleece wt	Diameter	Colour	Dark Fibres
Merino	+++	+++++	0/-	0/-	0/+	0
Polwarth	++	+++	0/+	Reduction	0	0
Corriedale	+	++	0/-	Rapid and big reduction	better	Reduction

# OBJECTIVES of the USE of DOHNE in DIFFERENT BREEDS

BREEDS	OBJECTIVES
<b>Corriedale</b>	finer Wools, more meat production: Q & Q
<b>Merino</b>	preserve fine wool, more meat production: Q & Q
<b>Criollo</b>	grade up and substitute

# WHERE TO BUY AND WHAT TO BUY?

Reliability on the Breeding Principles Intrinsic to the Breed, developed by breeder's founders in South Africa and then in AUS.

Available objective performance data (ASBV's) +  
Reliance on visual assessment for structural and conformation traits, on a large number of animals.

"The DOHNE Philosophy"

# Importance of the Dohne in different countries

- SouthAfrica: 30-40% (Dohne Breeders Association of SA)
- Australia: 22.1% (MLA)
- Uruguay: 7-10% (Dohne Breeders Association of Uruguay)
- Chile, Argentina, (10-12 breeders each)
- Perú,(5-6 projects), Malvinas/Falklands (4 breeders)



# Topics of Importance for discussion

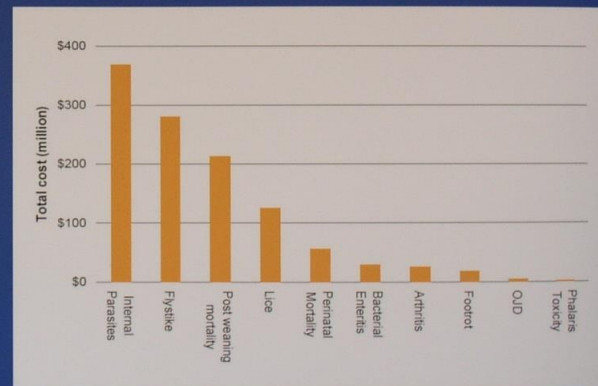
- Relative importance of meat and wool:  
Australia 70%-30%  
South America: more importance of wool.  
Alternative: optional selection indices.
- Selection for resistance to internal parasites (WEC) in high rainfall regions
- Tendency to wool yellowing in wet and hot climate
- WPP%: issue to be discussed
- Competition at shows ? How to perform them?

# Internal parasites: a big problem in high rainfall regions

## WIPE OUT WORMS

Internal parasites create a large cost to the sheep industry through:

- Loss of production in growth and fleece quality
- Increased labour costs
- Resistance to drenches in worm population



### ASBVs for Worm Resistance

**WEC (%)**

**Worm Egg Count**

Progeny will have a reduced worm egg count

**Haemonchus**  
**contortus**

(Barber's pole)



**Trichostrongylus**  
**colubriformis**

(Black Scour)





# LUCILIA CUPRINA (does NOT exist)



No need to mules sheep in South America

# Fly in temperate/subtropical regions producing strike

(*Cochliomyia hominivorax*)



# Fly Strike (needs a wounded zone) (Hoof with Foot Rot and fly larvae )





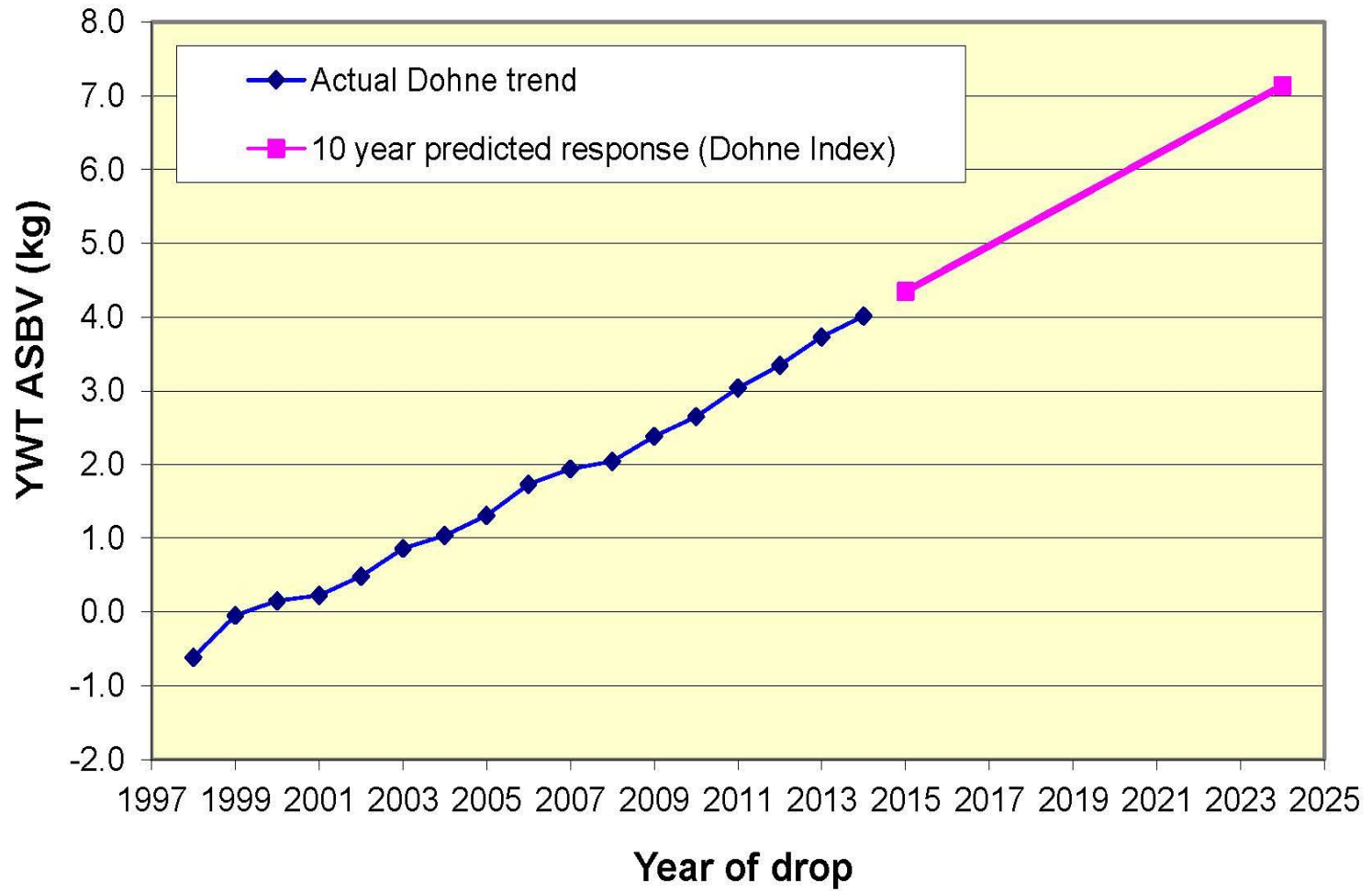
# FOOT ROT (a permanent threat)



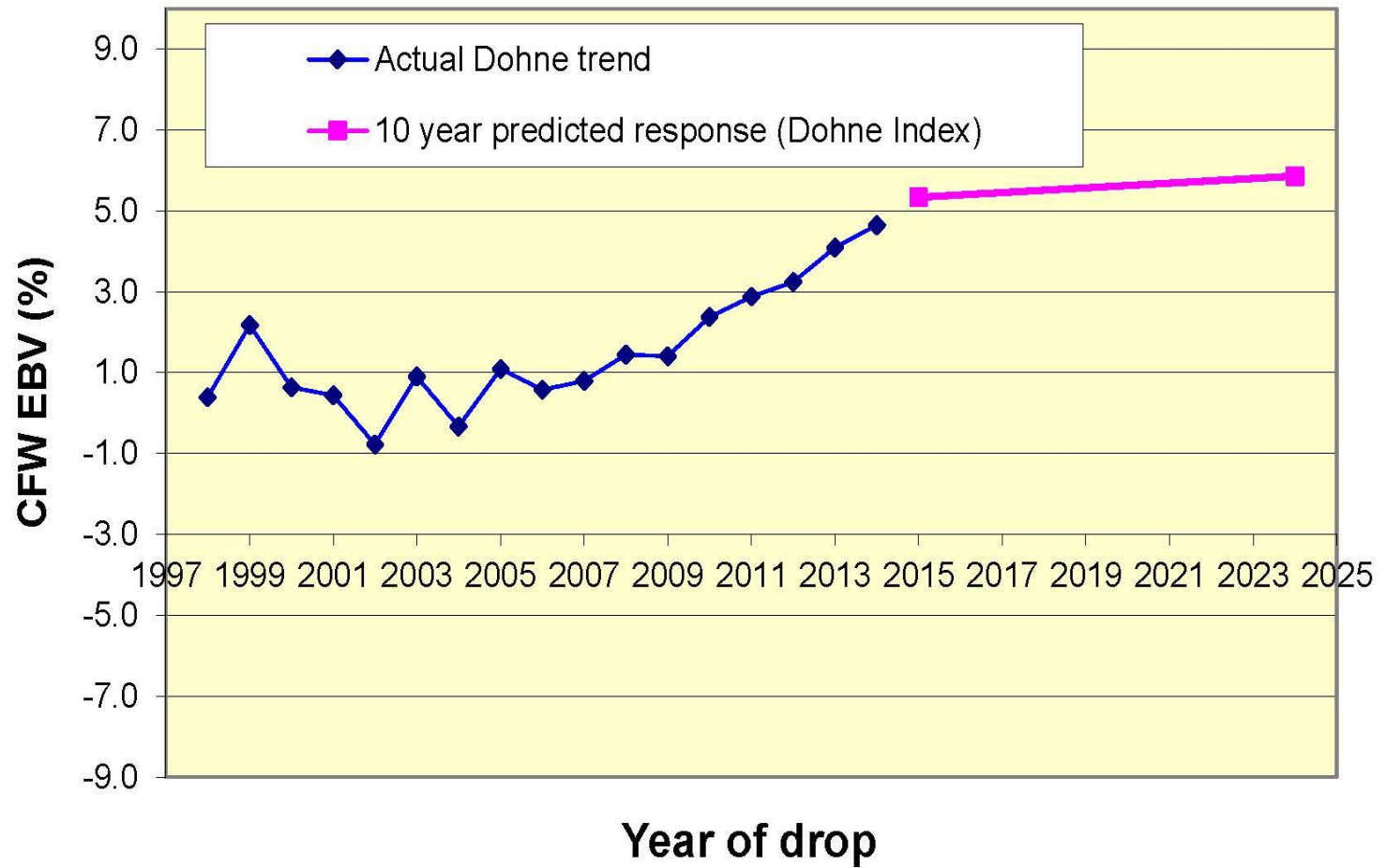




## Yearling Body Weight EBV



## Clean Fleece Weight EBV



An optimum relationship between Body wt and Fleece wt is essential for an efficient Dual Purpose production (?)

$$\text{WPP}\% = \text{CFW} \div \text{BW} \times 100$$

**A high production of fibres affects negatively the reproduction and growth**

(Wentzel, 1991; Adams, 2006)

WPP% of 5-7% is ideal





The Dohne Breed  
has a bright  
Future in South America



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Thank you