

Travel Report 24th June 2004

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Overview

- 1. Agricultural College Research Programme
- 2. Performance Test Centre
- 3. Al System
- 4. Farm Visit
- 5. Linear Scoring
- 6. Genetic Evaluations

Agricultural College – Research Programme

•Objective: To demonstrate that progeny of Al Sires & Stockbulls with superior genetic merit leave more profit than bulls with unknown genetic merit.



Results

Difference Between Herds – Genetic Merit			
Index	Reference Herd	Demonstration Herd	
Growth	97	105	
Muscle	107	108	
Skeletal	94	100	
Calving	100	94	
Weanling	100	106	
Milk	100	105	

Difference Between Herds – Profit			
Reference Herd/L.U	Demonstration Herd/L.U	+15	
€515	€594	%	

Performance Test Centre

Bull Selection

 Bull's with predicted BLUP's in top 33% of breed selected on paper & nominated calves inspected on farm.

- Veterinary Tests Herd certified free of IBR, TB, Brucellosis, Leucose & Johnes.
- Cost to Breeder is €1000 (incl. Insurance costs).
- Breeder's who refuse to put a selected bull on Test are overlooked for future intakes

Performance Test Centre

<u>On – Test</u>

•8 months old at start of test.1 month adaptation, 4 month growth control, 1 month pre-sale preparation

• Diet Formulation: 43% Hay, 18% Corn, 18% Barley + minerals. Hay & Concentrates gauged for daily gain of 1.2kgs/day

Feed Conversion Efficiency not measured

• Bulls not performing sent home or slaughtered with breeder consent (contract)

Performance Test Centre

<u>End of Test</u>

- Bulls graded
 - 10% with lowest results not 'Qualified'
 - •90% 50% highest results (performance & Scoring): Top Grade
 - 50% others: 2nd Grade

<u>Sale</u>

- Bull preparation starts 1 month before the sale
- Base price of €2500 set. Base price varies for top performing bulls
- Order of sale depends on performance results
- AI Bull presented at start of sale

AI System



Farm Visit

•90 Cows - 30 are pedigree registered

•Regular Suppliers of bulls to Performance Test Centre

Very Satisfied with system.

 Succesful Price = If (Price Received) - (Cost of Performance Test) > Factory Price

- Base Sale price = $\in 2500$
- Cost of $PT = \in 1000$
- Base price received = $\in 1500$

Farm Visit

•Al Sire selection based on Genetic Merit & Reliability % e.g Al Sire Progeny Tested in one herd would not be considered.

- Herd Statistics reports are extremely useful
- •All statistics given relative to National
- Population easy to identify progress
 - Length of calving season
 - Age profile of females
 - Average Calving Intervals
 - Trend in Genetic merit of Females, Males & Calves for different traits
 - Kgs of production due to genetics

Linear Scoring - System

- 500,000 weanlings scored
 - •10€ 1 animal weighed & scored
- •400 Linear Scorers (1250 animals each)
- Scores recorded on paper
 - electronic system now being introduced
 - Scorers have their own region
- •Same scale across different Breeds
 - Different Scale for Breed Specific Traits

•Scoring system is changing to describe functional traits

Linear Scoring - Referencing

- Examination takes place once/annum
 - 1. Repeatability
 - 2. Use of Scale
 - 3. Similarity with 'Master Scorer'
- If Succesful 1 Year 'Temporary' contract signed
- Contract renewed each year following succesful referencing exam.
- After 3 years Scorer not tested again for 5 years

Calving Ease Evaluation







Beef Indices

Maternal Index

- 40% Reproduction
- •25% Milk
- 20% Conformation
- 15% Calving Ease

Beef Index

- 0.54 x Carcass weight
- + 0.54 x Carcass conformation
- - 0.08 x Fat