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HOW TO INCREASE QUALITY AND QUANTITY IN DAIRY CATTLE AS DUAL PURPOSE BY GENETIC IMPROVMENT

Argi Argiris, IPB Bogor, Indonesia

Contributed presentation at the 60th AARES Annual Conference, Canberra, ACT, 2-5 February 2016

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Argi Argiris, IPB Bogor, Indonesia

Background

- Australia Awards Indonesia: Red Meat Partnership Policy Training Course, April-May 2015
 - 10 technical staff from Ministry of Agriculture, Indonesia
 - 6 week short introductory policy course
 - funded by DFAT/DAFF
 - managed by Coffey International, Jakarta



Dairy industry in Indonesia

- Dairy cattle are dual purpose, for milk and beef
- Average milk production is low (10.5 lt/day)
- Low quality standards for milk processing
- Identification on cattle is not effective
- Mobility of calves is high
- Difficult to get good data on animal performance
- Design of breeding policy







Problems

- How to increase dairy cattle population
- How to increase average milk production
- Start to identify cattle
- How to get good data as a basic tool to make good policy (population, reproduction, production, breeding management etc)
- How to introduce improved technology (reproduction, production, feeding, breeding, animal health, etc)

GENETIC IMPROVMENT by BREEDING SCHEME

PhD project, IPB Bogor

- Customer satisfaction with dairy semen from AI Centres in Indonesia
 - 2 AI centres in Indonesia, supply same product, compete in same market
- Assessment of semen quality supplied by centres
 - Possibility of introducing technology from Australia
 - Beef Breeding Services, Rockhampton adapted microscope used to identify sperm with better survival rates
 - Opportunity to cooperate with Australia to export semen to Asian and African countries
- Survey customers in 5 areas in East Java regarding semen performance
- Investigate microchipping of calves so their location during their life can be tracked
 - Performance recording and estimation of breeding values
- Economic evaluation of natural breeding compared to AI in beef cattle



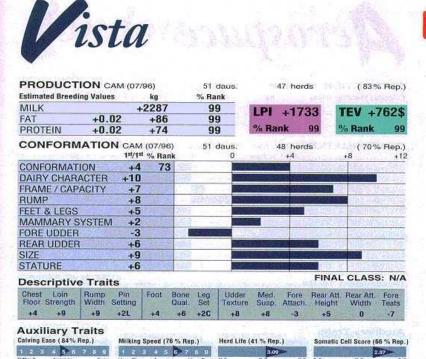
POTENTIAL RESULTS

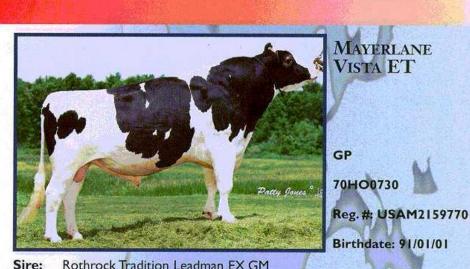
- Introducing new genetics for better quality and quantity of milk
- Increased milk production
- Introduce a performance recording system
- Get good data on animal performance
- Eficiency of reproduction/production etc
- Make better policy decisions with good data
- Increase farmers' incomes





BULL CATALOG (PROVEN BULL)





02-02 305 12,869 461 3.60% 422 3.30% (kgs)

I Lact: 14,706 530 3.60% 489 3.30%

Dam: Mayerlane Velmas Velvet ET VG

MGS: Walkway Chief Mark VG SP GM

THANKYOU

