

Impact of sire selection decision-making process on 305-d milk yield and age at first calving in Thailand

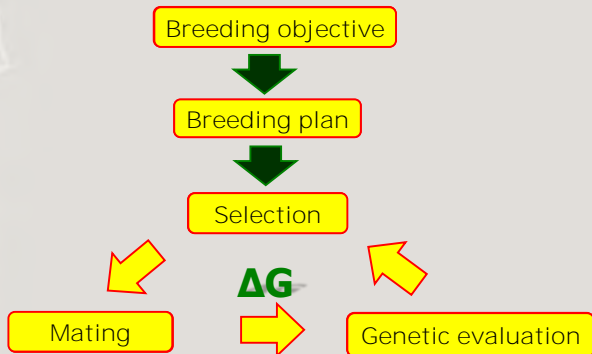


Thawee Laodim¹

Skorn Koonawootrittriron¹, Thanathip Suwanasopee¹, and Mauricio A. Elzo²

¹Department of Animal Science, Faculty of Agriculture, Kasetsart University, Bangkok, 10900, Thailand
²Department of Animal Sciences, University of Florida, Gainesville, FL 32611, USA

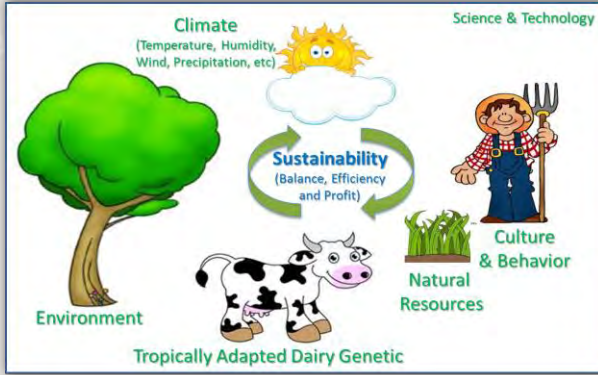
Dairy genetic improvement



Genetic Improvement (Breeding) = Selection + Mating

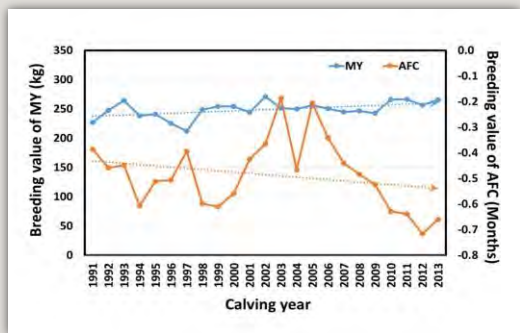
Koonawootrittriron et al. (2008)

Respond of selected dairy sires



Koonawootrittriron et al. (2008)

Genetic trend for 305-d milk yield and age at first calving



Konkruea et al. (2015)



Objective

To assess the *impact of the sire selection decision-making process* on 305-d milk yield and age at first calving in Thailand



Dataset

285 dairy farmers

2012 to 2015

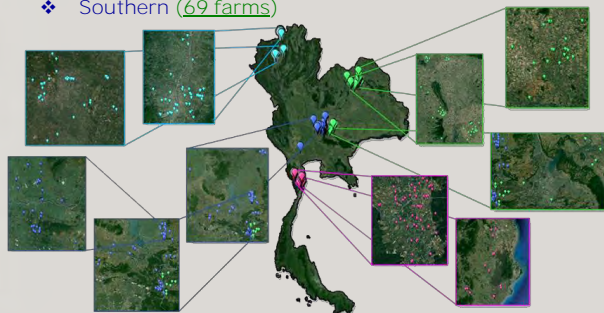
Development of
a Dairy Genetic-Genomic
Evaluation System
in Thailand Project
(April, 2012 to March 2015; P-11-00116)



Dairy farm located in Thailand

Questioners were from 285 farms located in regions of Thailand

- ❖ Central (76 farms)
- ❖ Northern (76 farms)
- ❖ Northeastern (64 farms)
- ❖ Southern (69 farms)

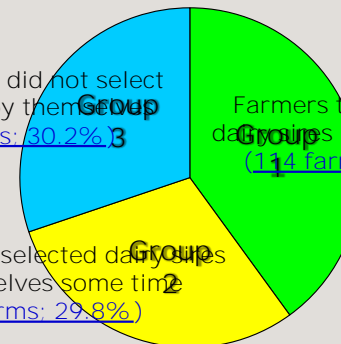


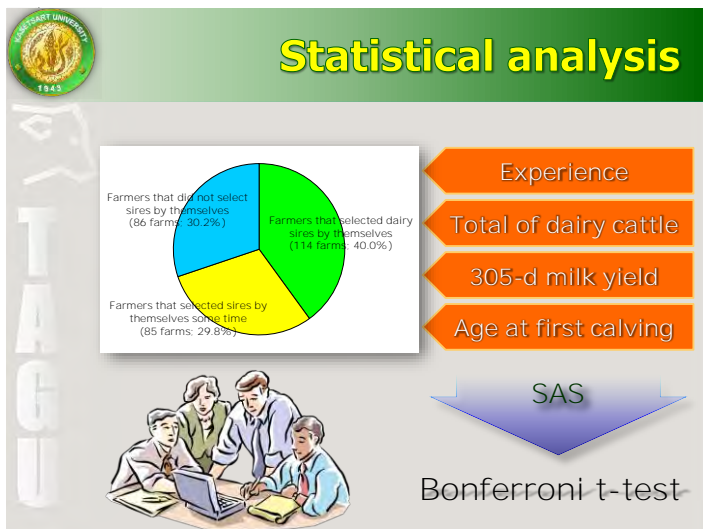
Groups of dairy farmers

Farmers that did not select
dairy sires by themselves
(86 farms: 30.2%)

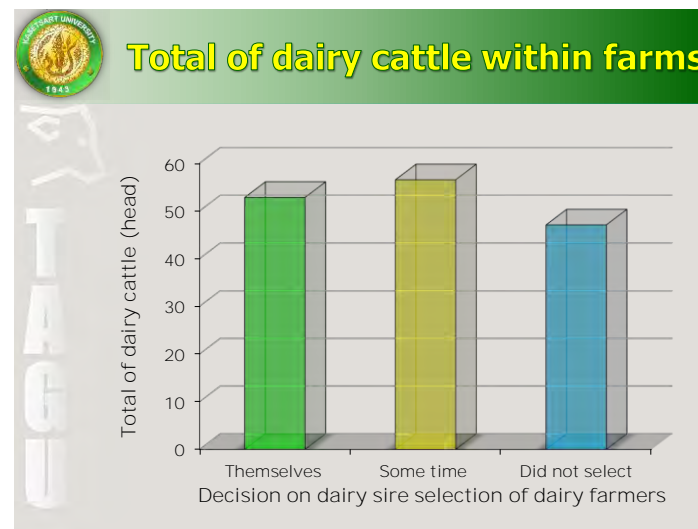
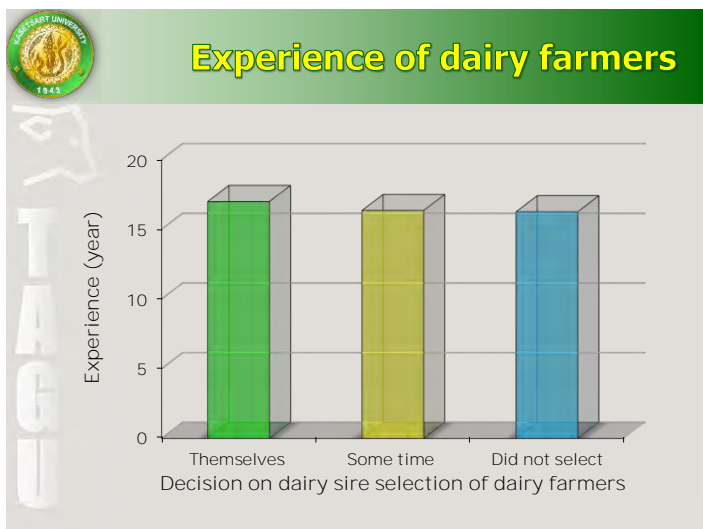
Farmers that selected
dairy sires by themselves
(114 farms: 40.0%)

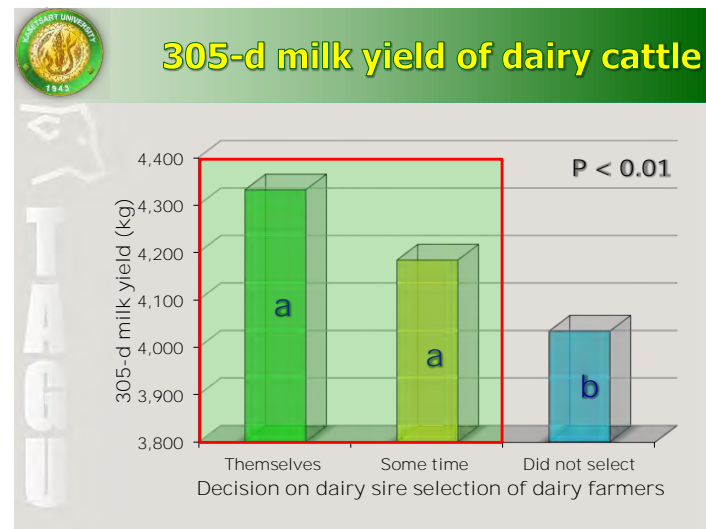
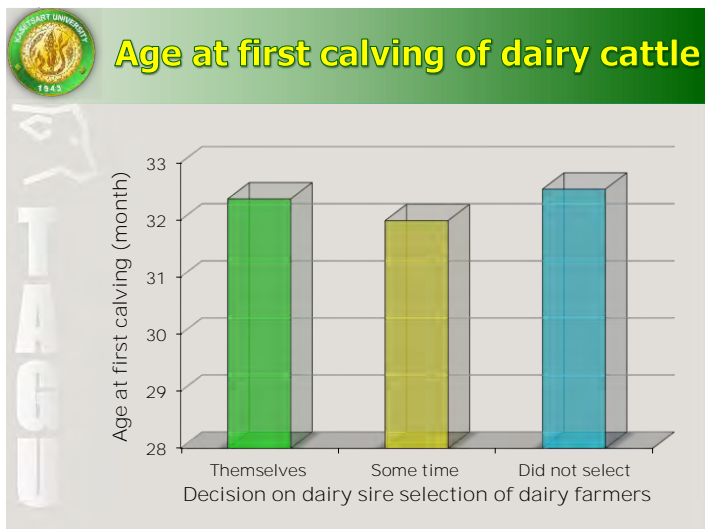
Farmers that selected dairy sires
by themselves some time
(85 farms: 29.8%)





Results and Discussion



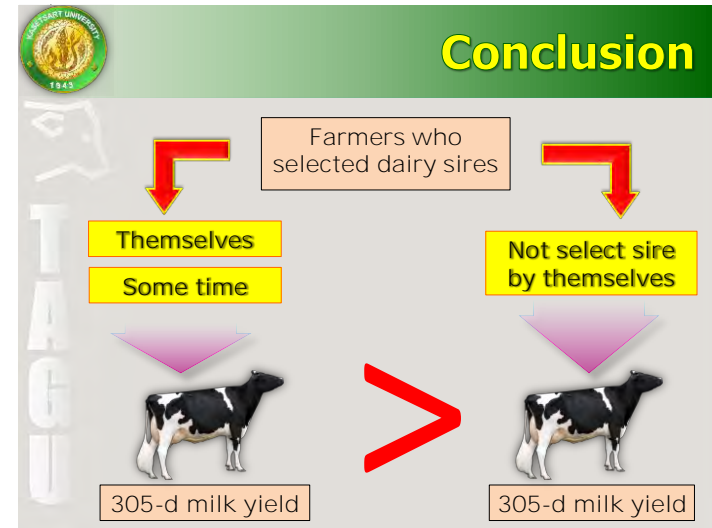
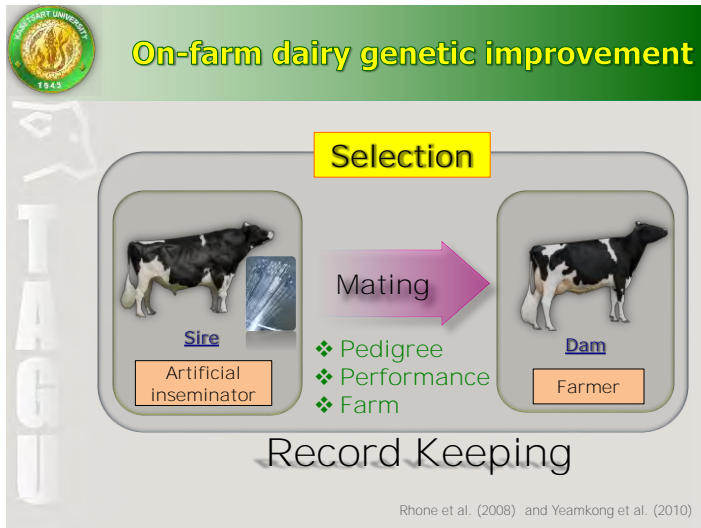


Farm variance and ratio of farm variance to total variance

Traits	Farm variance	Ratio of farm variance to total variance
305-d milk yield (kg)	403,079 ± 43,242 ¹	0.35
Age at first calving (month)	18.17 ± 2.00 ¹	0.39

¹ Standard error





Implication

The *development of dairy farmers' personal knowledge and understanding of genetic selection* will help ensure the sustainability and profitability of Thai dairy farms

Acknowledgment

Kasetsart University, University of Florida

Development of a Dairy Genetic-Genomic Evaluation System in Thailand Project

TAGU TROPICAL ANIMAL GENETIC UNIT

Dairy farm in Thailand

