

DAIRY Technology

JARUWAT NUTDECHANAN

Senior Dairy Adviser

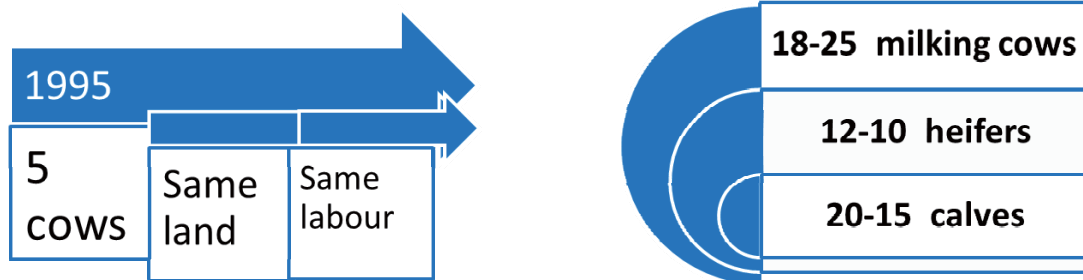
DEPARTMENT OF LIVESTOCK DEVELOPMENT(DLD)
Thailand

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Introduction

1995 :Government started to promote dairy raising in rural area to generate income in agriculture farms

2013 : 229,899 milking cows
500,418 dairy cattle
3,102.49 tons/day



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Cooperative

Farm members → Milk Collecting Center → Factory



- Pasture / roughages

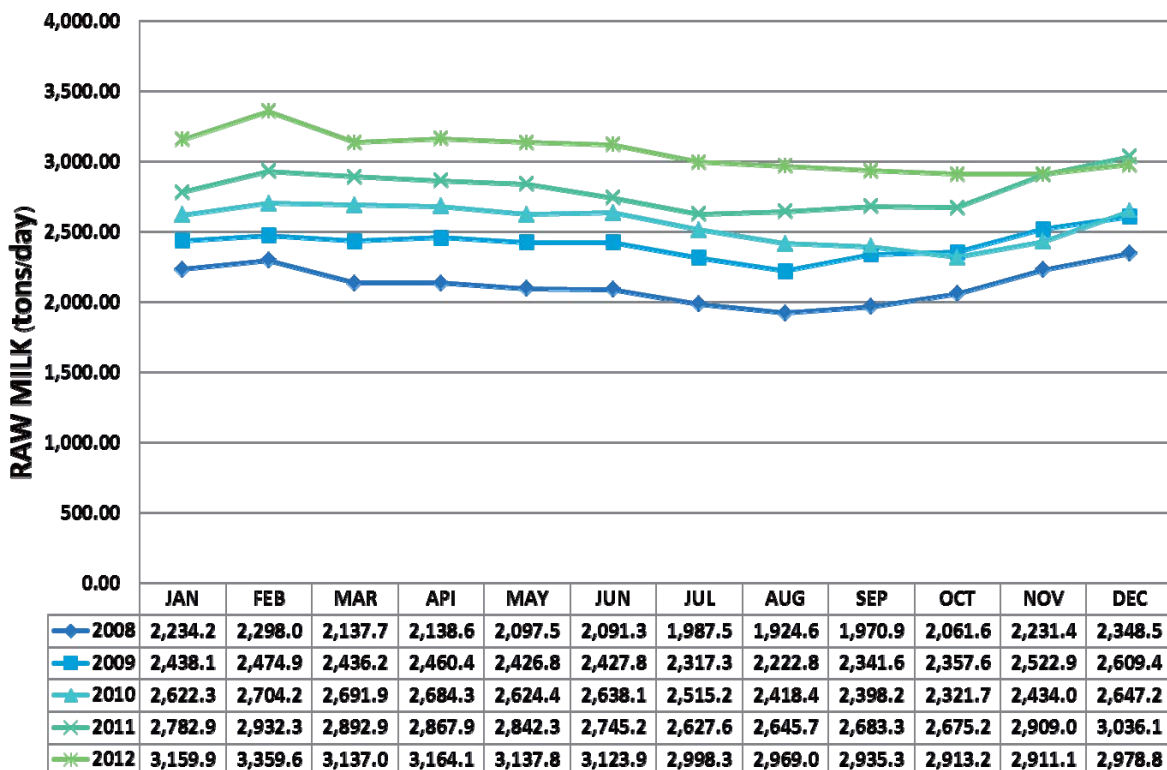


Service - Concentrate
 - AI
 - Primary Lab
 - Extension



Standard Lab.
 18 ₪ /kg.
 Factory gate price

MILK PRODUCTION 2008-2012



1. Reproductive Herd



- Upgrading native cows
- Producing crossbreed Tropical HF contain 82.5-93.75 % HF
- AI 100 %

Technology need -

- Heifers Replacement Farm
- Calf Replacement Farm



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2. Feed Management



Soybean meal + Waste beer + Cassava

- Lack of pasture in dry season
- Raw material feed from nearby factories such as : pineapple shell, corn stem, cassava shell and palm cake
- few Silage

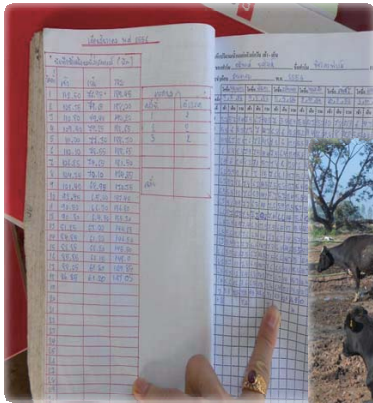
Technology need -

Total Mixed Ration



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3. Health and Hygiene Management



Technology need -



- poor reproductive performance
- health problems

- Record herd analysis
- DHI program

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4. Quality Milk Control



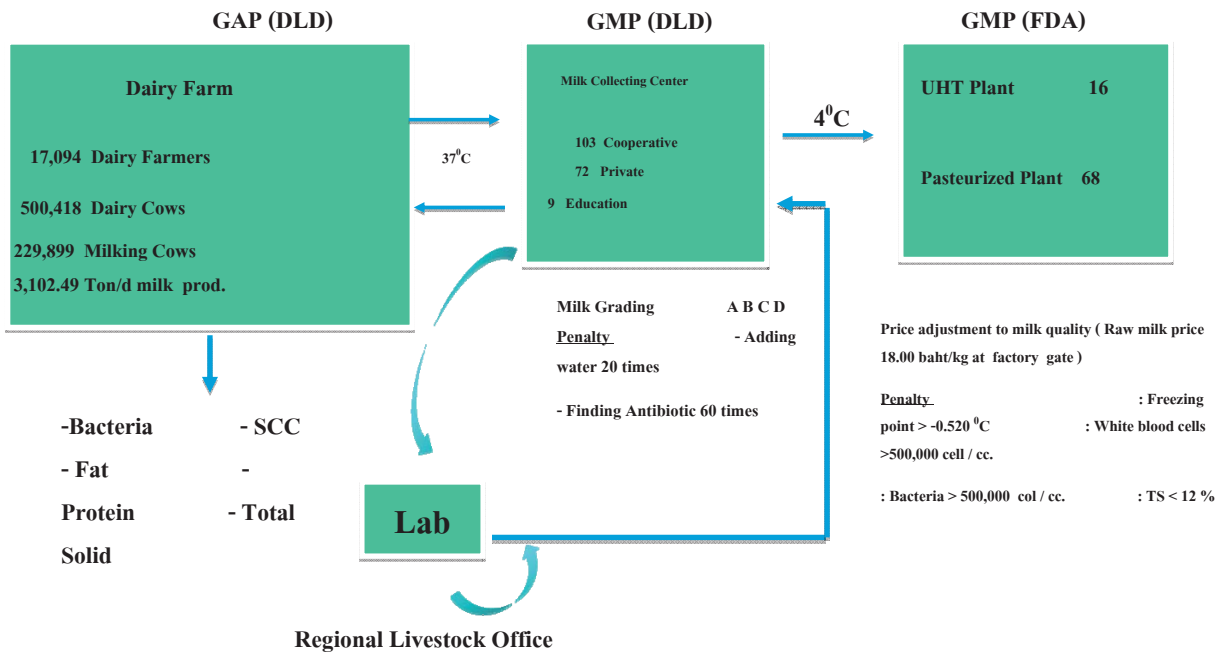
Technology need -

- Establish standard milk quality
- Good Agriculture Practices - Farms
- Good Manufacturing Practice -MCC

- Cooling chain
- Cooling tank in farm
- Decreases milking time

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Process of Raw Milk Quality Control by Department of Livestock Development 2013



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5. Farm Management & Production Cost

Technology need -



- Enhance farmer knowledge by Advisory from DLD/University
- Lack of Labor



- IT Program/RFID Tags
- Equipment/machine
- Dairyman Job certificate

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6. Marketing/Sustainable



Technology need -



- MOU
between MCC &
enterprises

- High quality milk extension
- Young dairy farmer idol

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Thank you for your attention

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