Animal Selection Process

Hafiz Wasi Muhammad Khan

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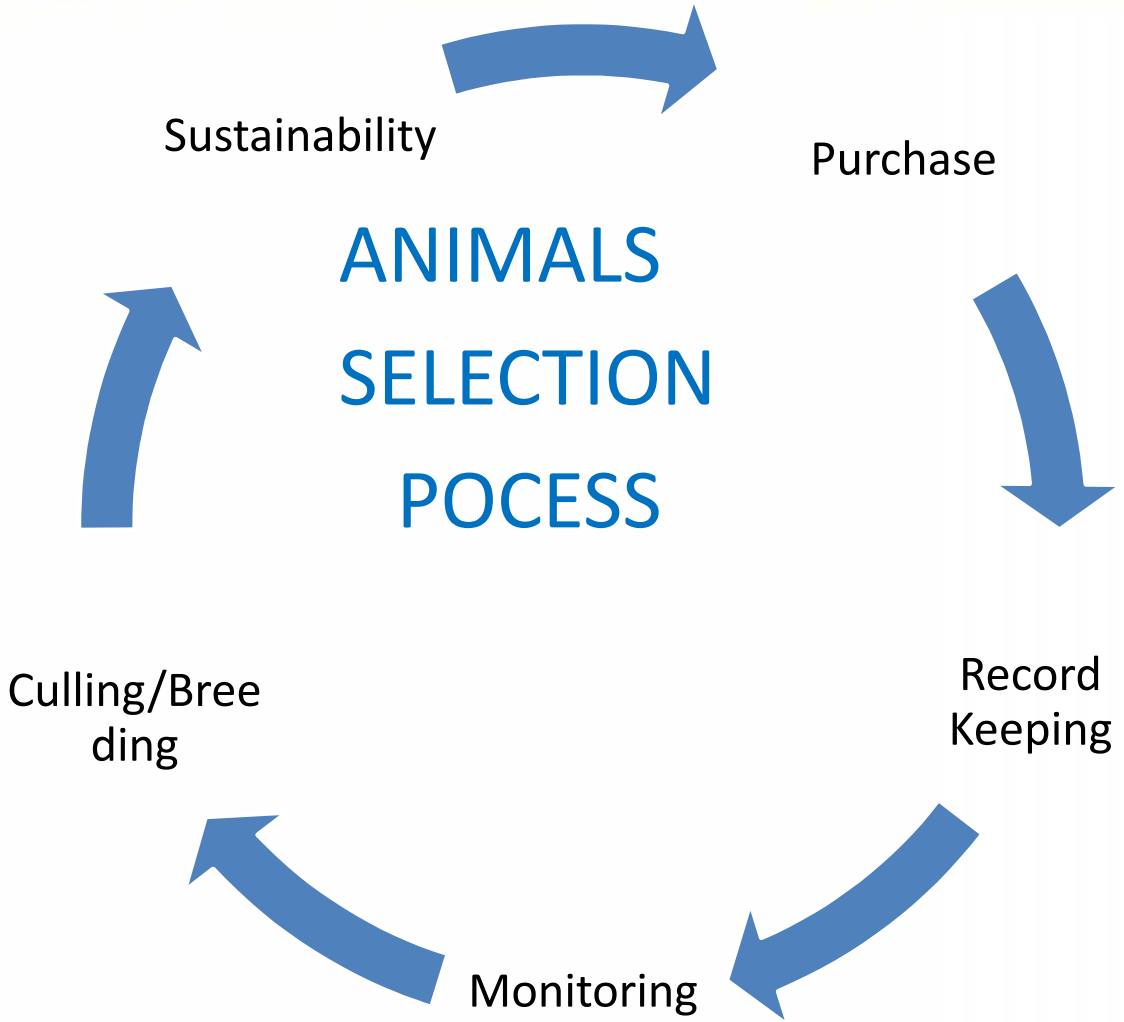
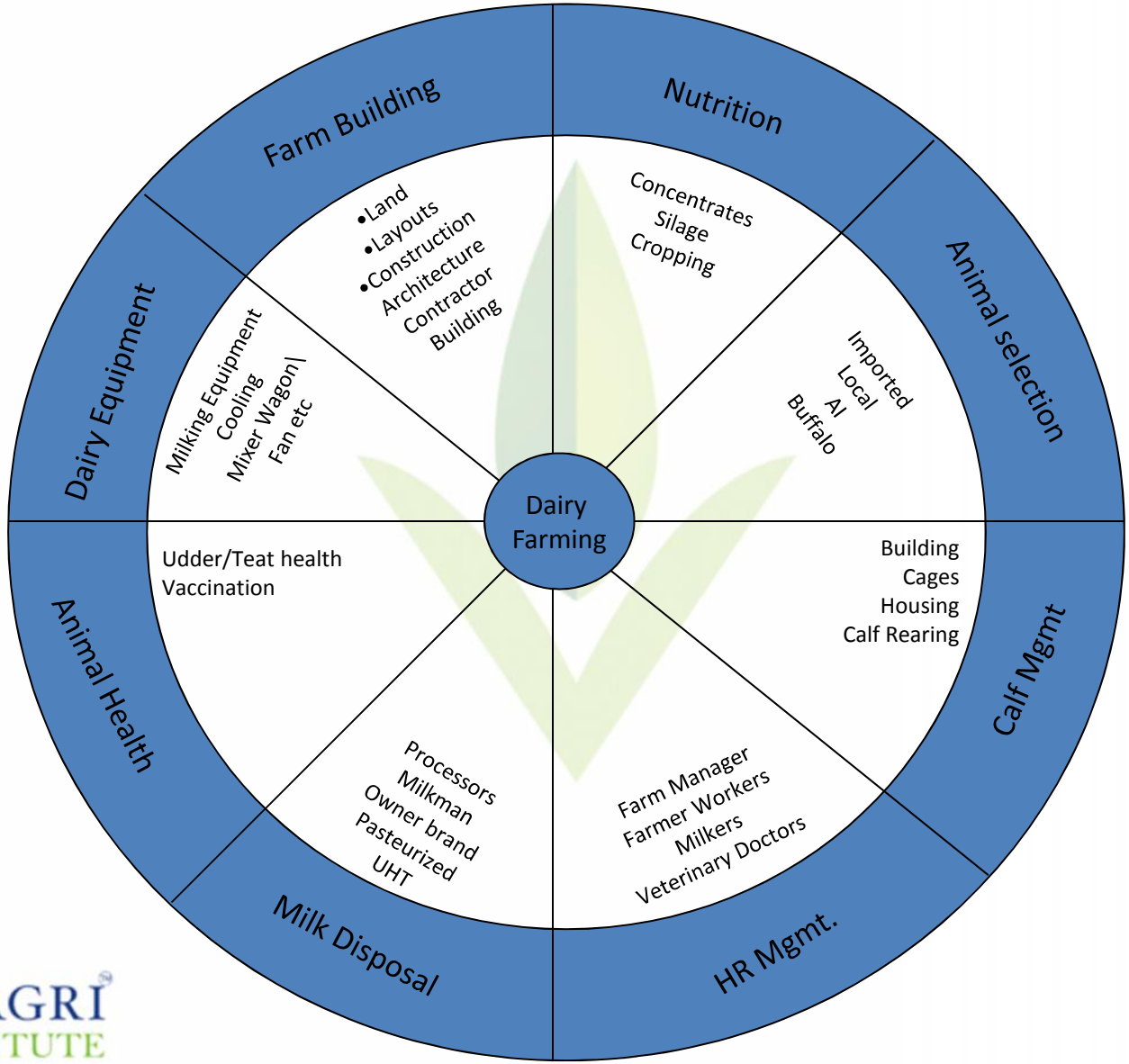

ANIMALS SELECTION POCESS
Purchase
Record Keeping
Monitoring
Culling/Breeding
Sustainability

Dairy Farming



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Foundation is Most Important

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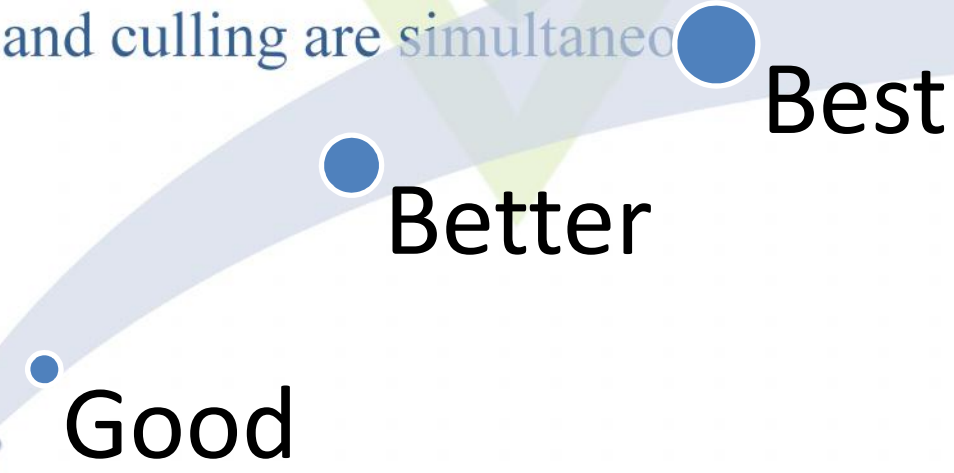
SELECTION / CULLING

- Selection refers to breeders decision to use of some animals as parents and to cull the rest
- The success is based on breeders decision to identify the superior animals
- Selection is based on economically important heritable traits
- Selection and culling are simultaneo



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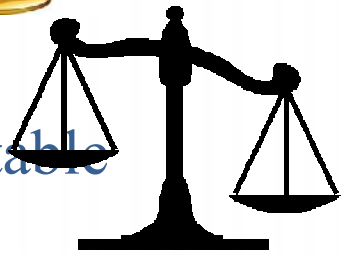
SUSTAINABILITY/ VIABILITY

- Inputs generate expenses
- Outputs generate revenue

- Higher inputs/Lower output = Not Sustainable

- Equal Inputs/equal Outputs = Break Even + Hope



- Less Inputs/More Outputs =Sustainable/Viable/Profitable

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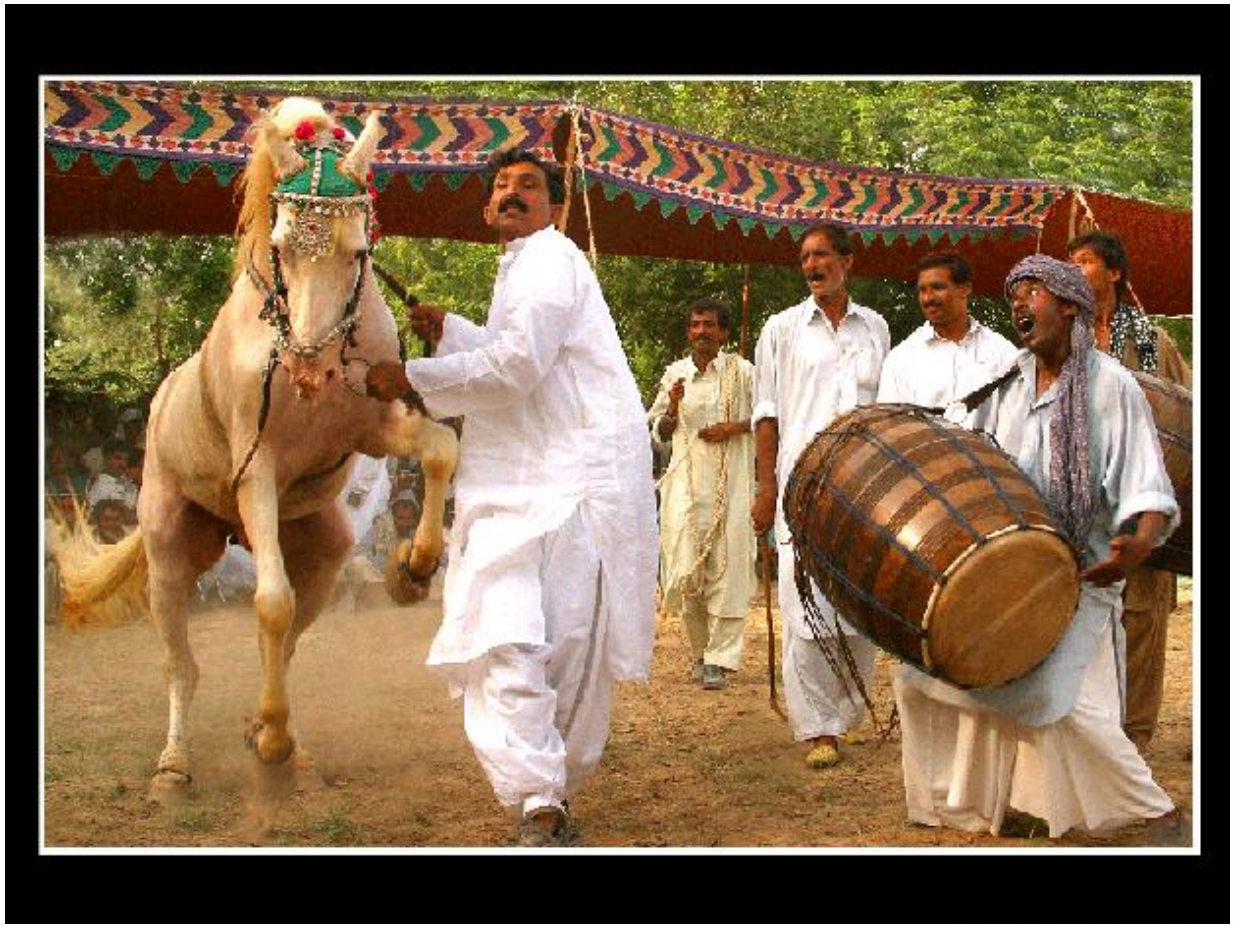
SELECTION/CULLING/REJECTION

- The basic component of any livestock project is ANIMALS
- All expenses on other components are aimed only to provide comfort to the animals maximizing their production in return making the project profitable
- For a viable project their potential must keep on increasing
- Productive animals in the project will make and non productive animals will break the project
- Selection and culling must be simultaneous
- Selection and Culling is always based on certain traits

DANCING HORSES



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Milk AND MEAT Production

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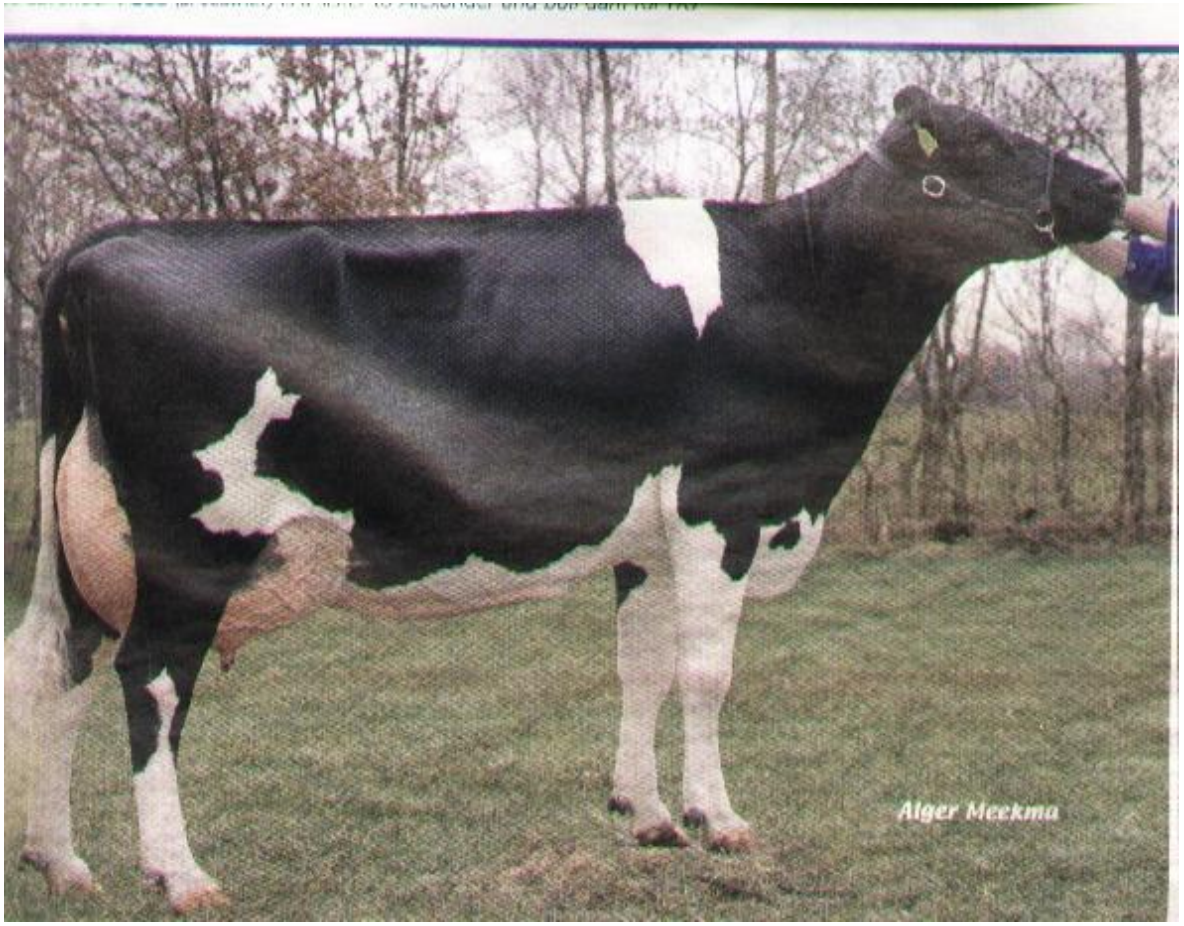
Milking Option



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MEAT AND QUALITY MEAT

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Breed Trait

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Export Market

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Milk Composition Percentage

Constituents	Buffalo	Cattle	Crossbred	Friesian
Fat	7.4	4.5	4.32	3.5
Proteins	3.8	3.3	3.2	3.1
SNF	9.4	8.8	8.5	8.7
Total Solids	16.8	13.3	12.8	12.2

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Financial Security

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SELF ASSESSMENT

History of Performance

- Tuzk e Babri — 20 liter/head
- Pre partition — 15liter/head
- Post Independence — 12 liter
- Economic survey 2006
  - Cattle — 6.1liter/head
  - Buffalo — 6.9liters/head

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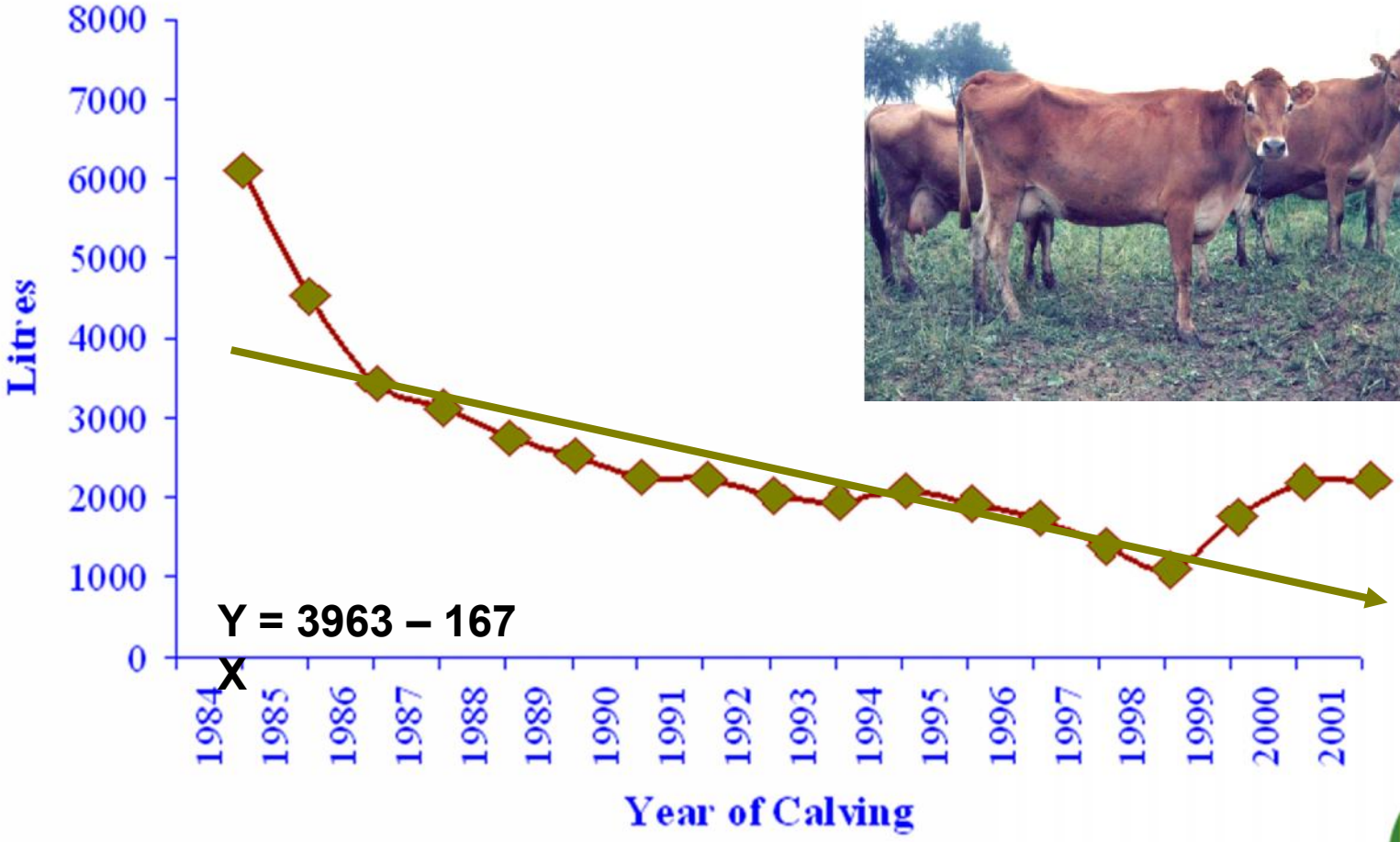
Lactation Yield of Jersey



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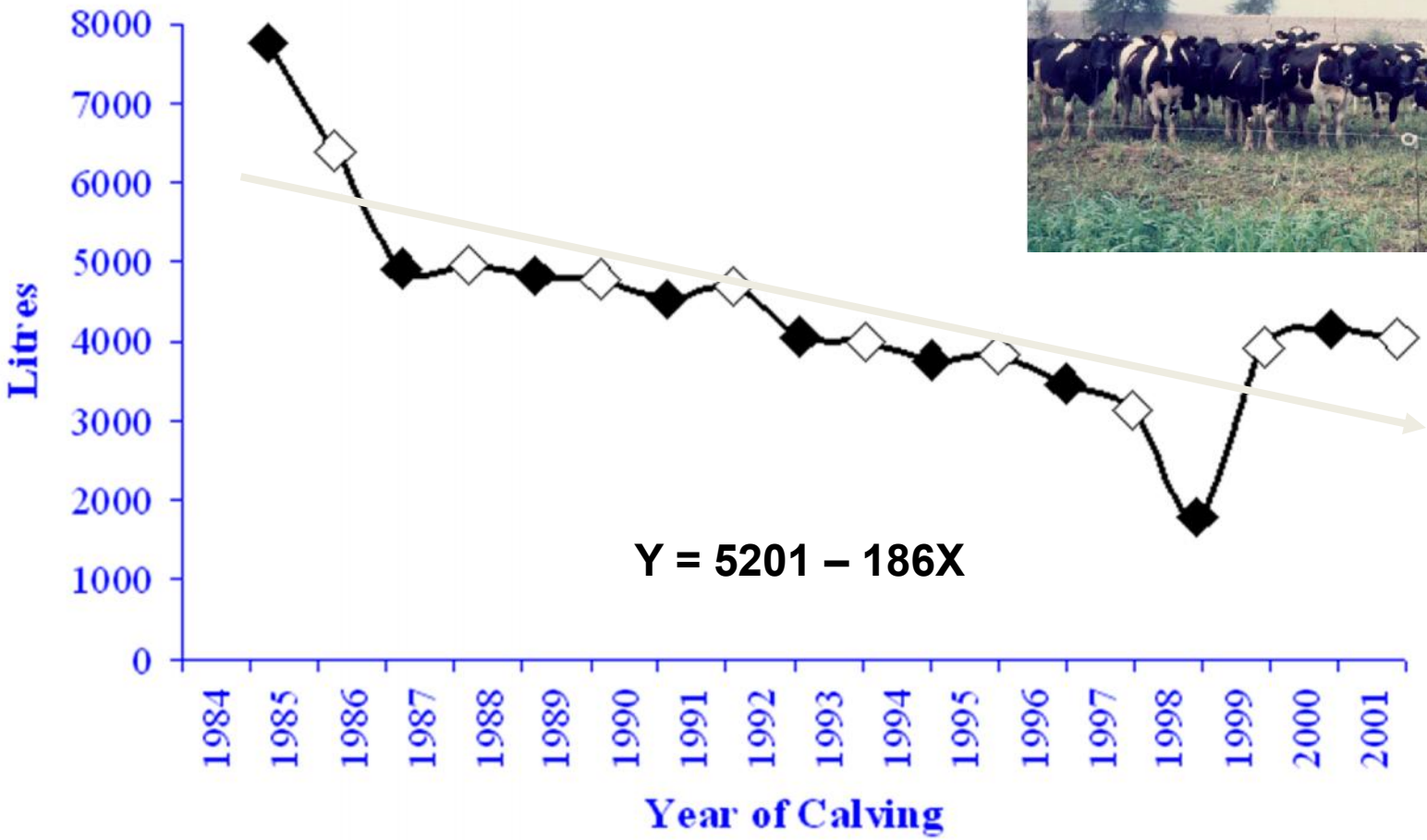
Performance of Exotic Breeds at Pattoki Farm

Lactation Yield in Holstein



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FARM N FARMER

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INTERESTED ONLY IN MULTIPLICATION

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Bache Do hi Acche

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Yeh sark kahin nahi Jaati

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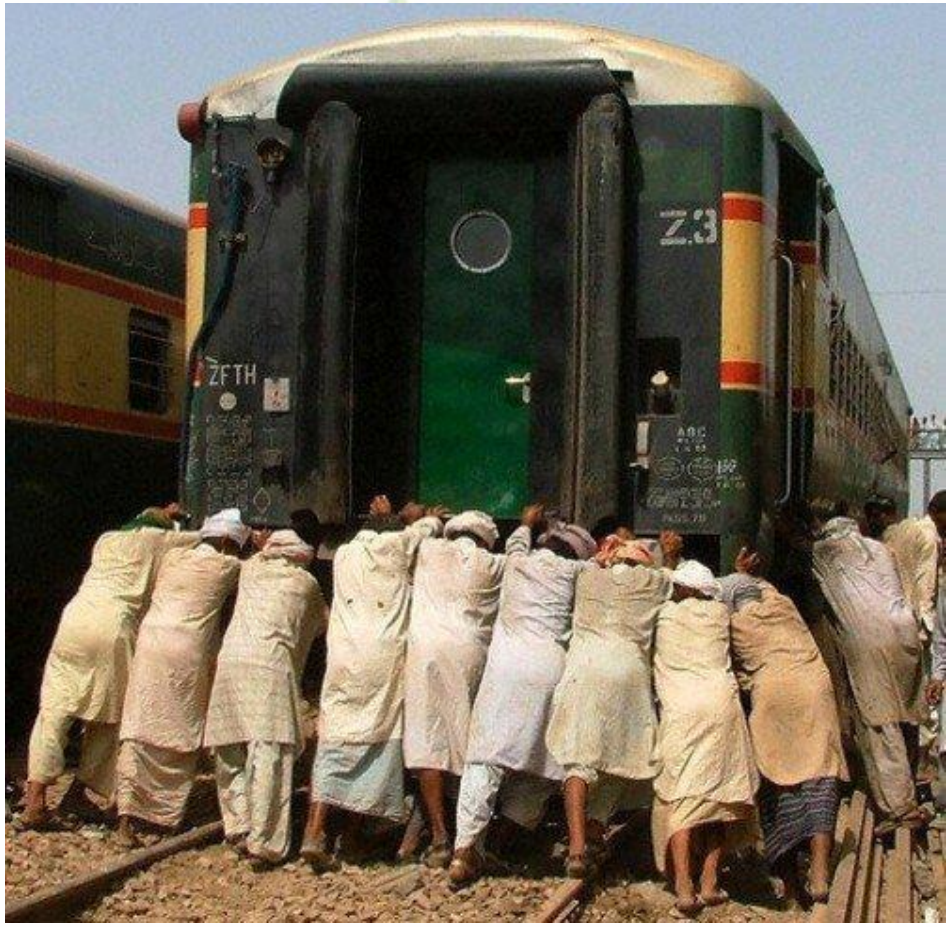
RESULTS VS VISION



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INEVITABLE RESULT

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WAY FORWARD

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BORN TO BE ALIVE

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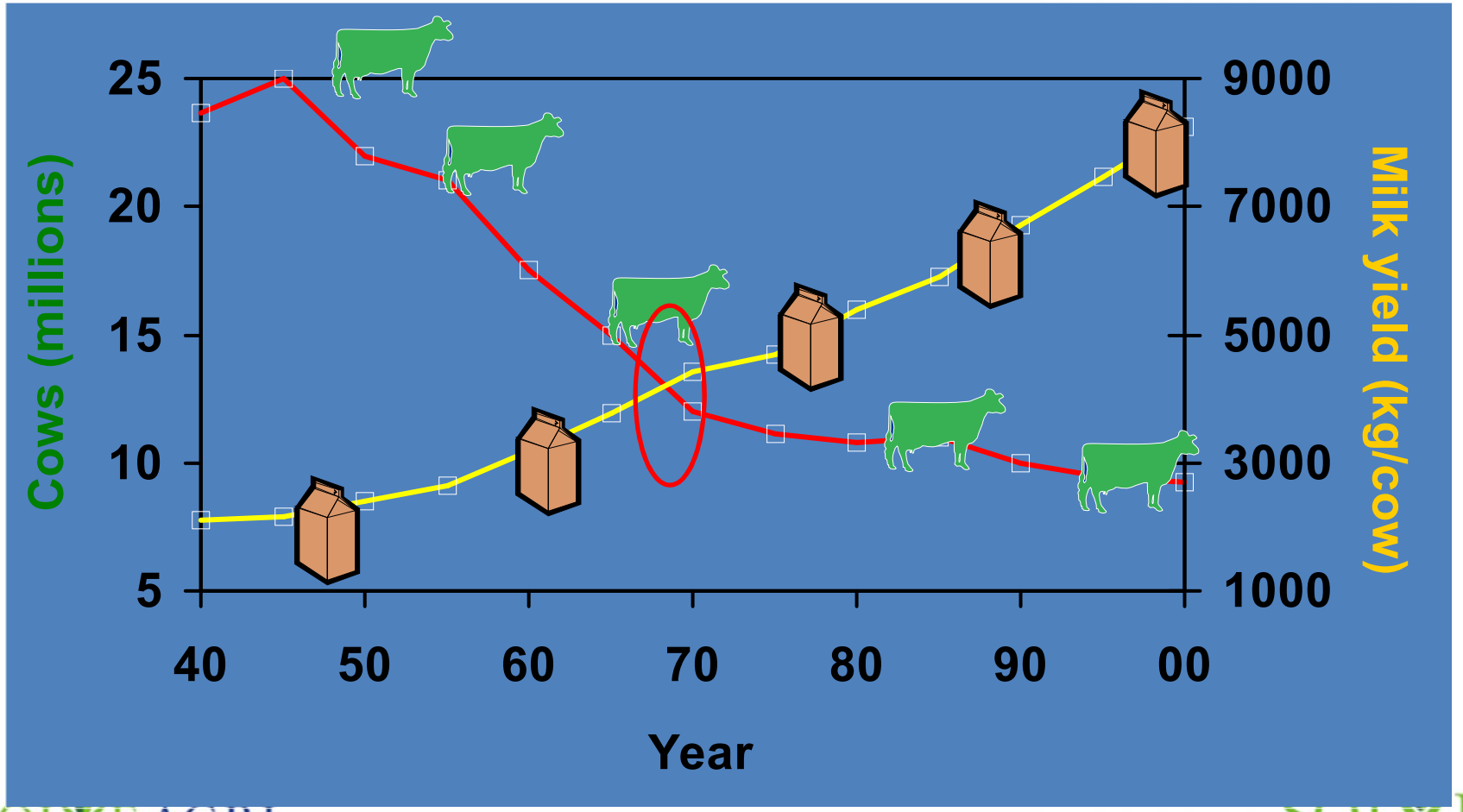
Dairy population trend in the world



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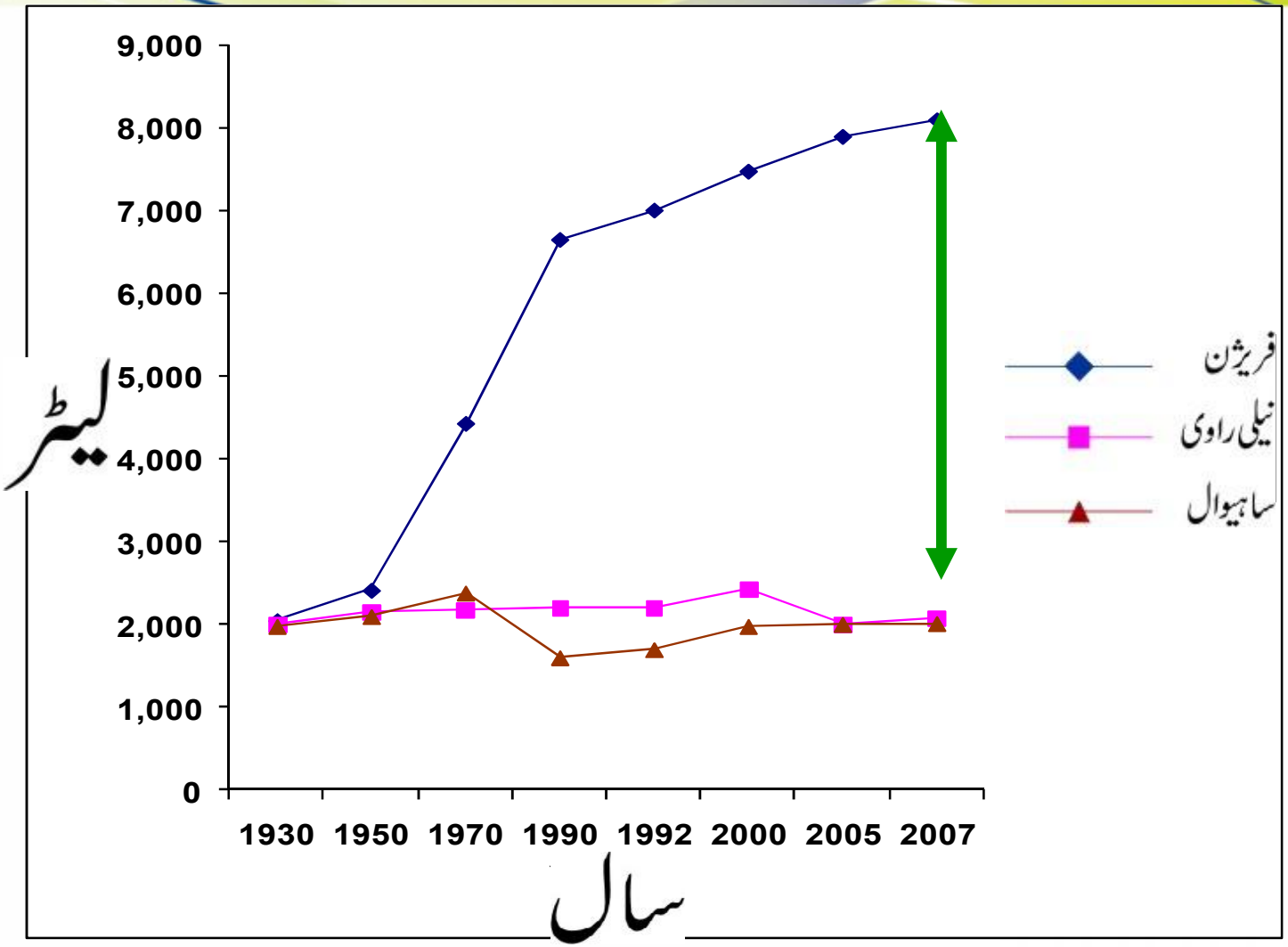
مخلوط النسلی کے جنیاتی مواقع



UVAS 2008

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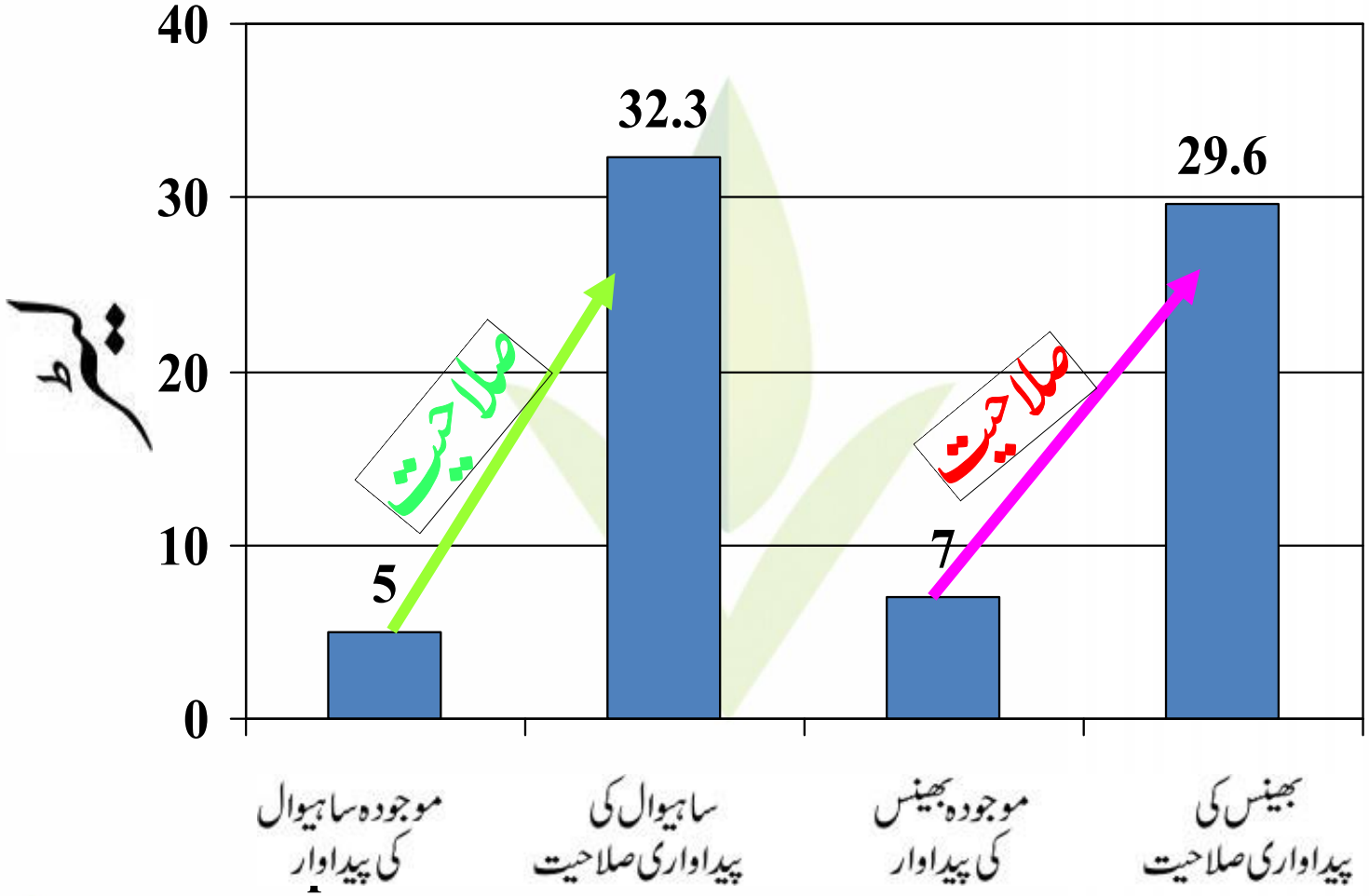
موجودہ نسلوں کے دودھیل جانوروں میں یومیہ پیداواری صلاحیت



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Constraints in Viable Animal Selection

- Livestock sector is predominantly dominated by poor farmers having 2-5 heads/family
- Due to poor cash flow the stake holders have limited options necessary for animal selection
- Cumbersome process of loaning system for such farmers (Every one talks of training not FCB)
- Weak Institutional commitment in public sector
- Inconsistent policy of the Institutions
- Weaker Breeding Societies

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CONTI___

- No Gene Pools from where farmers can get/purchase replacement of standard traits
- Non availability of PROGENY TESTED BULLS
- Inadequate/Ineffective Legislation in import of PTB semen import

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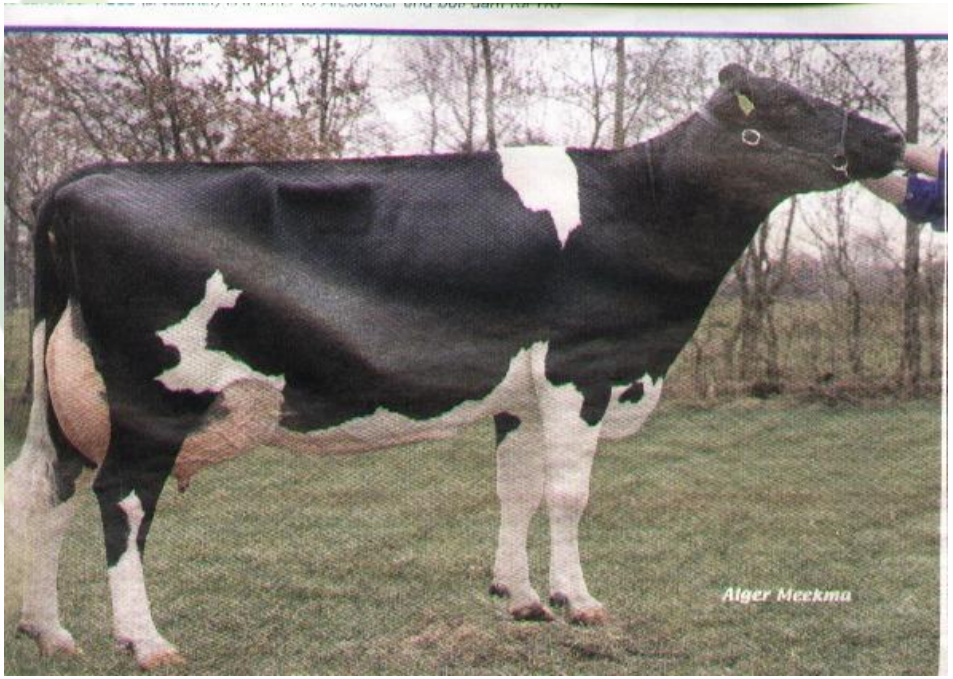
Model Cow

- 20 liter daily milk production
- Regular Calver
- 5000 liters milk/lactation
- Adaptive to any climatic change



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Sources Of Dairy Animal Selection

- From dairy farmers who practice proper record keeping
- From registered livestock breeders
- Through reputed dairy animals suppliers
- From animal markets(Mandis)
- Import of exotic animals

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Criteria for selection in your own herd

- To keep and maintain a productive herd following guide lines must be observed
- Proper record keeping of herd
- Maintain young stock up to 4th lactation
- Per/day milk yield should not be less than 20 liters
- Per lactation yield should not be less than 5000 liters
- Should be efficient in feed milk conversion ratio
- Body scoring and udder should be impressive
- Calving interval should be minimum
- Must be adoptive to climatic conditions & resistant to diseases especially mastitis

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ANIMAL SELECTION THROUGH BREEDING

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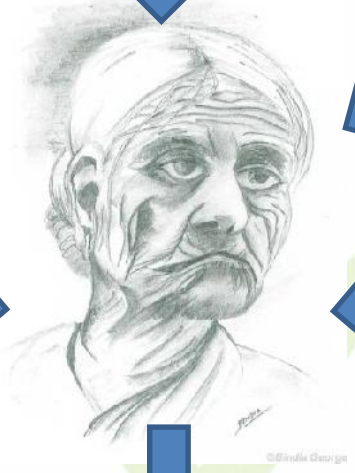
God Forgives But I Don't



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OPTIONS IN BREEDING MODE SELECTION

- NATURAL BREEDING
- CROSS BREEDING
- ET
- CLONING

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MILK TRAIT

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Dual Purpose

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MEAT TRAIT

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SELECTION VIA CROSS BREEDING

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ET

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Cloning

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FIT AT 90 YEARS

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HOPE IN FUTURE

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Summery

- Proper animal selection contributes 75 percent share in making dairy farming profitable
- Selection & culling is a constant process for a productive herd
- Record keeping helps in selection & maintaining of productive animals
- Animal selection should be based on current milk production, calving interval, longer lactation period & adoptability

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EVERY ONE HAS A RIGHT TO SELECT

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