

Sector:- Agriculture

Sub sector: Animal Production
Title : dairy production



Sector:- Agriculture

Sub sector:- Animal production

Dairy cattle production value chain in case of D/B

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የዕድገትና ትራንስፎርሜሽን ዕቅድ ዘርፎች

1	ግብርና እንስሳት ሃብት ልማት እሴት ሰንሰለት የወተት ላም እርባታ
2	ኢንዱስትሪ ልማት
2.1	ጨርቃ ጨርቅና አልባሳት
2.2	ቆዳና የቆዳ ውጤቶች
2.3	ስኳርና ተጓዳኝ ምርቶች
2.4	ሲሚንቶ
2.5	ብረታ ብረትና ኢንጂነሪንግ
2.6	ኬሚካል (ፋርማሲቲካል፣ ህትመት፣.....)
2.7	አግሮ ንግድና ምርት
3	ማዕድን
4	ኢኮኖሚ መሠረተ-ልማት
4.1	መንገድ ግንባታ
4.2	ባቡር ትራንስፖርት
4.3	መንገድ ትራንስፖርት
4.4	ባህር ትራንስፖርት
4.5	አየር ትራንስፖርት
4.6	ኢነርጂ
4.7	ውሃና መስኖ
4.8	ቴሌኮሙኒኬሽንና አይሲቲ
4.9	ከተማ ልማትና ህንፃ ከ/ን
5	ንግድ
6	ጤና
7	ባህል፣ ቱሪዝምና ስፖርት
8	ማህበራዊ

OBJECTIVE

- 1. To discuss the present cultural farming practices in dairy production.**
- 2. To identify dairy production value chain (AS IS) in and around D/b Town .**
- 3. To compare dairy production value chain (AS IS) to that of the benchmark.**

Facts and figures

❖ Milk yield/cow/day

-In Ethiopia/ D/birhan/- 21 L/day

-In Israel - 51.5 L/day

-In US - 43.5 L/day

-In UK - 34 L/day

❖ Average ages of calves reach at first breeding

-In Ethiopia/D/B -2.5 years

-In India -1.8 years

Agriculture:- Dairy production value chain

AS IS



Input supply

Feed -straw
-Atela
-wheat bran
-oilseednutcakes

Breed-HF
-jersey

water
-pipe water

feeder
-cement

manpower
-un skilled

Equipment
-bucket
-towl
-milk processer
-cream separater

Housing

Site selection

un ventlated

building
house.jpg -Poor
house

management

feeding
-imbalanced
-low quality

watering
-pure water

healthcare
-poor

hygiene
-poor

Waste disposal
-good

Longer
breeding/AI/

Marketing

-poorMarketing
system
- poor linkage(poor
communication)
-local market(for
customer)

No promotion

Poor calve reari
ng

processing

**There is no milk
processing**

Agriculture:-dairy production value c TO BE..Israel



Feed corn, soybeans, wheat, barley,oat,sorghum, pasture,

•**Breed**
-HF.iersv

waterer
-metallic

manpower
[comi.jpg](#)
[committed/skil](#)
[ted](#)

grazing land

-water
-pipe water

-feeder
-cemented

equipment
-milk processing machine
-lacto meter
- hoof- trimmer
- heart grith thermometer
- restrainer
- towl.bucket.

Site selection

-road
-power
formulated feed
vet. Service
-market

building
-confined
-open
-drainage
-space
-path

feeding

-cut and carry
-mixing

watering

-piping
breeding -cow-calf
Growth hormon,shorter
breeding time

healthcare Treatment,
Vaccination,
Parasitecontrol,isolation,footb
ath,hygiene,hooftrimming,deh
orning,
Castration, good Waste
disposal

Promotion

Product Quality Enhancement

-Market Linkage
restaurants,
supermarkets,
Whole seller,retailer

Hygiene

Cream
separate

Packaging

Labeling

Agriculture:- dairy production value chain **Gap**

Input supply

Housing

management

Marketing

Processing

Feed corn,
soybeans, wheat,
barley,oat,sorghum
-[pasture land](#)

grazing land

waterer
-metallic

manpower
- [committed](#)

-water
-pipe water

formulated
feed
[formu.jpg](#)

equipment

-[milk processing machine](#)

-lacto meter

- [hoof- trimmer](#)

- heart grith
[thermometer](#)

- [restrainer](#)
[reatmentequip](#)

Site selection

-road
-power
-transport
- vet.
Service
-market

building

-confined
-open
-drainage
-space
-path

feeding

-[cut and carry](#)
-[mixing](#)

watering
[watering.jpg](#)

[breeding](#) -cow-
calf[calf.JPG](#)
[Growth](#)
hormon/shorter
breeding

healthcare

Treatment,
Vaccination,
parasite,control,isola
tion,footbath,hygiene
,hoof,trimming,dehor
ning,
Castration, good
Waste disposal

Promotion

Product Quality
Enhancement

Market
Linkage/restaura
nts and
supermarkets,w
holeseller

Hygiene

Cream
separate

Packaging

Labeling

Agriculture:- Identified technologies

	TECHNOWARE	HUMANWARE	INFOWARE	ORGWARE
House	1.Open house 2. confined house	Construct modern house	Prepare farmstead manual	_House building and construction center
feeding	3. feeder 4.waterer	Filling the gap appropriate feeding and watering techniques	Prepare feeding and watering manual	milk processing plant
measuring	5.weighting scale	fill the gap proper weighting of the cow	Prepare weighting operating manual	Agricultural & Rural development
Milk processing	cream separater ,machine milker	prepare appropriate cream separating machine	Prepare milk processing manual	Agricultural & Rural development
Identification	Ear tag	fill the gap of ear tag techniques competency	Prepare identification technique manual	Agricultural & Rural development

Hoof trimming	8.hoof trimmer	knowledge of hoof trimming techniques	Prepare hoof trimming operating manual	Agricultural & Rural development
spraying	9.knapsack	knowledge of knapsack calibration	Prepare spraying operating manual	Agricultural & Rural development

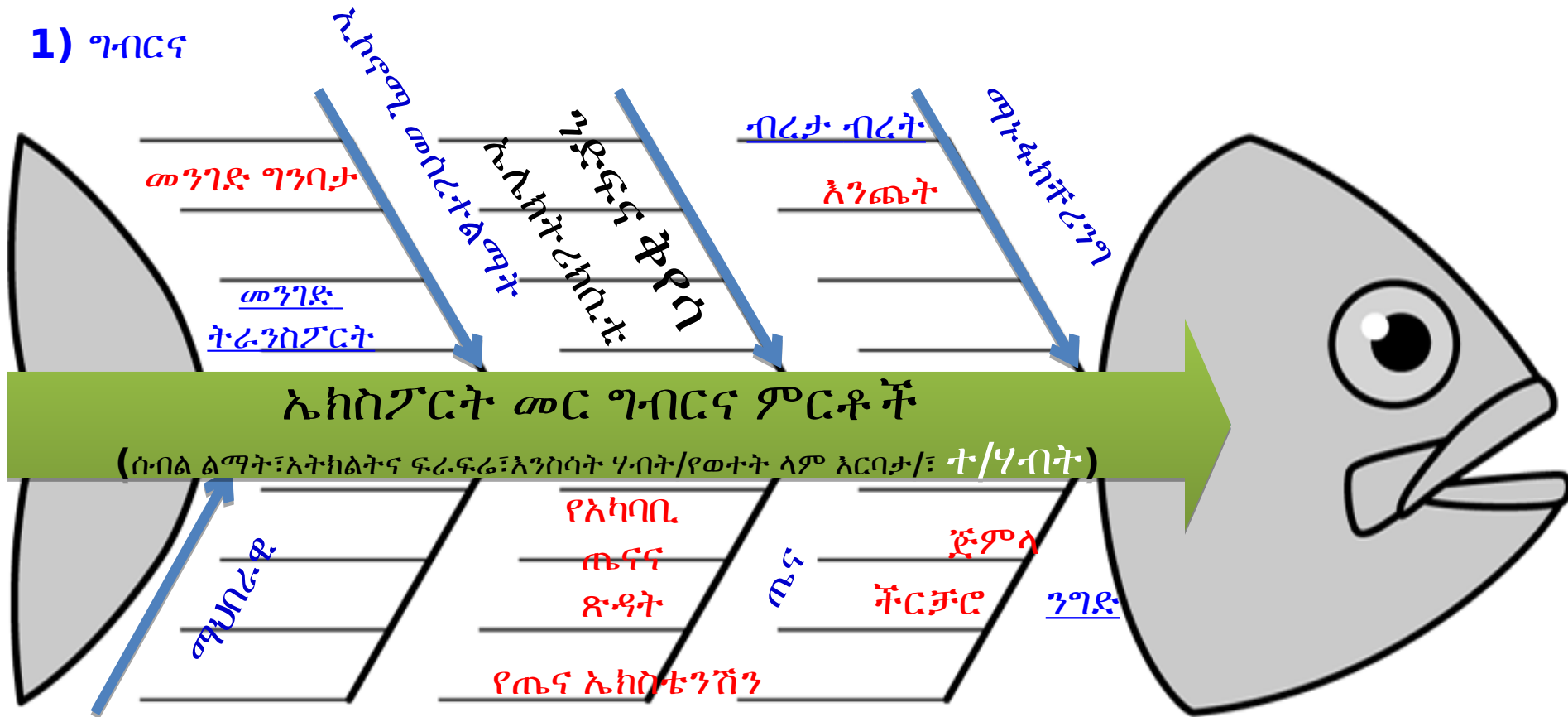
De worming	10.balling gun	skilled of use de worming	Prepare deworming operating manual	Agricultural & Rural development
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Hay making	11.harvester	knowledge of hay making	Prepare hay making manual	Agricultural & Rural development
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vaccinating	12.Vaccine syringe	techniques of application of vaccination	Prepare vaccination manual	Agricultural & Rural development
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1) ግብርና



Agriculture:-dairy production value chain

Changes come by best
practice

No .	Indicators	Unit	Best experience	AS IS	
1	Milk yield/cow/day	Liter	51.5	21	
2	<i>Ages of calves reach at first breeding</i>	year	1.8	2.5	

The result that come by best practice

No.	ሲብራ የሚመጣው (Outputs)	ውጤት (Outcomes)	ለውጥ (Impact)
1	Increase farmers productivity	Increase per capita of daily income	Share GDP and live a better life
2	increase the product of milk by product	Decreases losses by fluctuation	Increase profit gain by milk product

Evaluation of value chain

- ❖ Least in dairy production globally
- ❖ Least in milk consumption
- ❖ Market barriers during fasting period
- ❖ Low milk yield
- ❖ **Constraints contributing to this facts are:**
 - In adequate technological inputs
 - In adequate feed formulation
 - Poor marketing network
 - Cultural and traditional practices
 - Poor breed & breeding system

Planning

- ❖ Identify technologies
- ❖ Discusses with partners
- ❖ Acquire technologies
- ❖ Make the design of selected technology
- ❖ Manufacture the technologies- 100% Copy
- ❖ Give continues extension service about dairy cattle production

Identified technologies and respective sectors responsibility

TECHNOWARE	sector	Sub-sector
1.Open house 2. confined house	Economy infrastructure -Industry development	-Building construction -Manufacturing -surveying and drafting
3. feeder 4.waterer	-Industry development	Manufacturing
5.weighing scale	Industry development	Manufacturing
6.dehorner	Industry development	Manufacturing
7. Milk processing machine	Industry development	Manufacturing
8.hoof trimmer	Industry development	Manufacturing

9.knapsack	Industry development	Manufacturing
10. tag applicator	Industry development	Manufacturing
11.Milk Processing house	Industry development	Manufacturing
12. Vaccine syringe	Industry development	Manufacturing
13. harvester	Industry development	Manufacturing



**LIKE BIRDS CAN NOT FLY
WITH OUT WINGSS, WE
ETHIOPIAN CAN NOT
ACHIEVE DEVELOPMENT
WITH OUT ANIMAL
PRODUCTION!!!**

