

CABBAGE PRODUCTION VALUE CHAIN ANALYSIS



Sector :- Agriculture

SUB SECTOR:- HORTICULTURE



CABBAGE PRODUCTION VALUE CHAIN IN DEBRE TABOR WOREDA KEBELE 04

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2	ኢንዱስትሪ ልማት
2.1	ስኳርና ተጓዳኝ ምርቶች
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3	ማዕድን
4	ኢኮኖሚ መሠረተ-ልማት
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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
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Objective



- ❖ Generally; the study was conducted to increase productivity and getting high profits of cabbages to assured food security in Debre Tabor district in Amhara region.
Specifically this aims to ;
- ❖ Compare the VC (AS IS) to that of the Bench mark
- ❖ Identify the gap and constraint in attaining high yields
- ❖ Identify and recommend technologies that will improve enterprise practice and increase productivity
- ❖ Identify the VC (AS IS) in Debre tabore cabbage production

Facts and figurs

N o.	criteria	country			
		Ethiopia	Russia	India	Korea
1.	Total Yield production in ton	2,496,300	4,067,680	6,000,000	2,800,000
2	Yield loose/year	52%	40%	21%	26%
3	Yield quality	poor	medium	Very high	high
4	Fertilizer application	Using organic fertilizer	160kg p & 175kg N/ha	100kg N/ha, 125kgP/ha & 150kgK/ha	
5	Use of improved seed variety	Using local varieties	Improved varieties	Use improved varieties	Improved varieties
6	Average consumption of people in Kg /year	223kg	146kg	246kg	

Cabbage production VC (AS IS)

INPUT	Cultivation	planting	Production & mgt	Post harvest handling	marketing
Irrigation facilities	Site selection Considering only water resource	Seed varieties •Not identify the crop Variety •During seed selection they not consider, viability , germination %age	Growth monitoring •Produce twice / yr	Storing Producers directly supply for the wholesalers' Not store their product	wholesaler
seed seed as is.docx	Land preparation •Tillage repetition 3 times •Tillage tools: traditionally by animals	Planting Planting as is.docx •Spacing : b/n row 50 cm & b/n plant 30 cm •Methods : transplanting	Irrigation •Method : furrow •Interval: 20 day	Transporting •By labor	
fertilizer Fertilizer as is.docx			Weeding Weeding as is.docx •Repetition: 3 times •Method: hand weeding		
Pesticide Insect as is.docx			Fertilizing Fertilizer as is.docx •Organic fertilizer		
Farm tools & equipment Tools as is.docx			Insect & pest control Insect as is.docx •Cultural •chemical		

Cabbage production VC (to be BM)

INDIA

INPUT	CULTIVATION	PLANTING	PRODUCT ION & MGT	POST HARVEST	MARKETING
Irrigation Drip irrigation BM.docx	Soil testing soil ster BM.docx	Seed varieties Seed bm.docx	Growth monitoring	storage STORAGE BM.docx	Cost economic Cost economics BM.docx
Seed Use improved seed varieties	Land preparation Land pre BM.docx	Seed quality used certified seed ; high purity, viable, good germination %age	Irrigation & drainage Drip irrigation BM.docx	Transporting Using refrigerated vichiel	
Fertilizer Application of fertilizer BM.docx	Cropping calendar Cropping c bm.docx	Seedling preparation	Weeding Weed control BM.docx	Packing Packing BM.docx	
pesticide Plant protection BM.docx		transplanting Planting BM.docx	fertilizing Application of fertilizer BM.docx		
Farm tools & eqt Tools.docx			Insect & pest control Plant protection BM.docx		

Cabbage production VC (Gaps/constraints)

INPUT	CULTIVATION	PLANTING	PRODUCTION & MGT	POSTHARVEST	MARKETING
Irrigation	Soil testing	Seed varieties	Growth monitoring	Storing	wholesalers
Seed	Land preparation	Seed quality	Irrigation & drainage	Transporting	Cost economics
Fertilizer	Cropping calendar	Seedling preparation	Weeding	Packing	
Pesticide	Soil sterilization	Transplanting	Fertilizing	Key great variation	
Farm tools & eqts			Insect & pest control		
			Harvesting	re	Not exist in AS IS

Agriculture:- Identified Technologies

Activities	Techno-ware	Human-ware	Info-ware	Orga-ware
IRRIGATION	1. Irrigation & drainage (drip system)	Units of Competencies on: • Schedule irrigations	• Water Management Manual • Cropping Calendar Manual	• Bureau of Irrigation to develop & construct irrigation infrastructure • Irrigators Association or Cooperative – government partner in IDP
SEED QUALITY	2. New improved Seed Varieties		• Seed Quality Manual • cabbage Seed Production Manual	• cabbage Seed testing Center • cabbage Seed Growers • cabbage Research Center
LAND PREPARATION	3. Moldboard Plough & Harrow	• Prepare land for agricultural crop production • Operate specialized machine and equipment • Supervise crop maintenance	• Land Preparation Manual • Farm Power Operation Manual	• cabbage Demonstration Farms
	4. Hand Tractor/Power Tiller		• Hand Tractor Operation and Maintenance Manual	• Training center for cabbage production • cabbage Research Center
Seedling Preparation		• Establish horticultural crops	• Seedling Preparation Manual • Steps in Successful cabbage Production	

Agriculture:- Identified Technologies

Activities	Techno-ware	Human-ware	Info-ware	Orga-ware
Planting	5. Planter	• Transplanting seedlings • Undertake crop maintenance activities • Supervise crop maintenance • Implement Plant Nutrition Program	• Methods of Planting Manual • Water Management Manual • Pest Control Manual	
HARVESTING	6. Harvester	• Undertake horticultural crop harvesting • Monitor crop harvesting program	• Harvesting Manual	
packing	7, Fiber board carton, wire-bound crates	• Under take cabbage packaging	• Packaging manual	
TRANSPORTING	8,. Refrigerator vichiel			• Farm to Market Road & Bridges
WEEDING	9. Rotary Weeder	• Control weeds, pests and diseases in crops • Prepare and apply chemicals	• Weeds control Manual • How to Spray Pesticides	
SOIL TESTING	10. Soil test kit/ pH meter	• Soil sampling and analyze results	• Soil Sampling Manual	Soil Analysis Center /Bureau of Soils

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(ሰብል ልማት፣ እትክልትና ፍሬፍሬ፣ እንስሳት ሃብት፣ ተፈጥሮ ሃብት)

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Agriculture:- Cabbage production Value chain

Changes come by best practice

No.	Indicators	Unit	Best experience	AS IS
1	Total production/year	ton	> 4,992,600	2,496,300
2	Per capita consumption	Kg/person	> 446	223

The result that come by best practice

No.	ሲብራ የሚመጣው (Outputs)	ውጤት (Outcomes)	ለውጥ (Impact)	
1	Increase enterprise productivity	Increase per capita consumption of citizens	Protect citizens health, Increase profit gain by cabbage production	
2	Increase use of technologies	Decreases losses by local practices	Increase productivity & get high profit	

Evaluation of the value chain analysis



- Least in cabbage product storage
- Least in cabbage consumption
- Market barriers during summer season
- High yield loss
- Low quality product

Constraints contributing to this fact are:

- In adequate technological inputs {fertilizer, improved seed}
- In adequate extension service
- Cultural and traditional practice
- Poor selection of suitable agro ecologies
- Poor marketing network
- Lack of skilled man power



- ❖ Identify technologies
- ❖ Discusses with stockholders
- ❖ Acquire technologies
- ❖ Make the designee of selected technology
- ❖ Manufacture the technologies- 100% copy
- ❖ Give continues extension service about cabbage production

Identify technologies and respective sectors responsibility

NO	Techno ware	metal	auto	Electriccity	remar k
1	Drip irrigation	Body part		Motor control	No time to attaché & insert photo
2	Improved seed varieties seed.jpg			Moisture meter	
3	Moldboard plough	Body mechanism	Auto part	Motor control	
4	Harrow				
5	Hand tractor	Body mechanism	Auto part	Motor control	
6	Planter	Body mechanism		Motor control	
7	Harvester	Body mechanism	Auto part	Motor control	
8	Fiber board carton				
9	Refrigerator vechiel	Body mechanism	Auto part		
10	Rotary weeder	Body mechanism	Auto part		
11	Soil test kit/PH meter			PH meter	



● Thank you
very much