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## BEEKEEPING REPORT

### Introduction

The Conservation Farmer Wildlife Producer Trading Centre (CTC) in Lundazi recognizes the potential of the beekeeping activity as a rural enterprise. For a long time the people have been harvesting honey traditionally from the bush. Wild honey gathering is destructive to trees, to bees and bee larvae, contribute to bush fires and disturb wildlife habitat and safari hunting activities

Honey markets are economically viable in Zambia as the quality of honey in Zambia is excellent and offers the potential for higher-valued export markets. The CTC since 2001 pursued the beekeeping project to increase the volume of honey that is produced in Lundazi and Chama district and to offer producers fair market prices at the same time destructive practices of wild honey gathering.

### CURRENT STATUS OF BEEKEEPING

In order to increase honey production, WCS has promoted the use of modern hives and dead trees as opposed to live trees. The areas of concentration for beekeeping, number of groups formed and hives made are shown below:

CHIEFDOM	AREA/ UNIT	LOG hives	GROUPS	BAR hives	GROUPS
Magodi		357	17	223	22
Chifunda		400	14	88	9
Chikwa		291	7	46	7
Kazembe		280	9	11	4
Kazembe	Zokwe	161	7	18	2
Chitungulu		447	8	20	7
Zumwanda		296	8		
Chikomeni		341	9	68	4
Mwasemphangwe		500	19	99	8
Kambombo		150			
Tembwe		170			
Research apiary				10	
<b>Subtotal 1</b>		<b>3393</b>	<b>93</b>	<b>583</b>	<b>63</b>

From March to July, the beekeeping activities have concentrated on: *wax purchasing and baiting, honey cropping season and processing, and making of smokers.*

### Training Materials

The **Final draft** of the Beekeeping Manual was completed and soon all the depots will have a copy. All the Extension Managers have been given the Manual. A **bulletin** that contains information on the *prices of honey, conditions of the premium price, apiary management, quality honeys to be purchased,* was produced and distributed to all the depots.

### Beekeeping equipments

The beekeeping equipments received are the 24 buckets, 8 drums, and 24 buckets to be brought in. Ten (10) buckets were bought from CTC Funds to boost honey-processing production. We have continued to make veils from empty cement bags. One honey presser for Mfuwe and another for Luangwa Feira have been dispatched to their respective areas.

ITEM	Initial No	New number	Remarks
Veils	45	60	30 to be distributed in Magodi 1 <sup>st</sup> wk of April
Buckets	24	49	24 buckets received
Drums	4	12	8 drums received
Honey Presser	2	4	One for Mfuwe & another for Luangwa Feira already dispatched
Cotton cloth		50m	For Processing honey (received)
Mesh wire		15m	For Processing honey (received)

### COST-VOLUME-PROFIT OF APRIL to JULY HONEY SEASON

COST	UNIT	QUANTITY	TOTAL COST	COMMENTS
<b>FIXED</b>				0
Salary	6	1115000		
Honey press		2	-	
Wax pan		0	-	
Buckets	20,000	10	200,000.00	
Materials and labour:			-	
Kenyan top bar hive		583	-	
Logs		3393	-	
administration/ selling costs			-	
Drums	9		-	
<b>Sub-Total 1</b>			<b>200,000.00</b>	
<b>VARIABLE</b>				
Honey harvesting	200	2018.7	403,740.00	paying trainers K200/ kg as commission
Honey collection (Motorbike)	22.5	6500	146,250.00	The cost of collecting of honey from the areas
Others			15,000.00	
Vehicle	15	5500	82,500.00	
Other transport means			95,000.00	
Comb Honey purchases	2550	2018.7	5,147,685.00	
Cloth	50	5000	250,000.00	
Mesh wire	15	11000	165,000.00	
Bottles	2500	650	1,625,000.00	
Labels	2500	250	625,000.00	
Labour (processing)	6	200000	1,200,000.00	Wages for the honey processor for 6 months
Charcoal	12	10000	120,000.00	
Torches			-	
Wages			70,000.00	Helping in pressing comb honey
Miscellaneous			60,000.00	insecticides, detergents and related costs
<b>Sub-total 2</b>			<b>10,005,175.00</b>	
<b>OVERHEAD</b>				
Apiary management:			0	
Stationery			0	
Allowances			60,000.00	missing lunches
<b>Sub-total 3</b>			<b>60,000.00</b>	
<b>Cost per 500 ml of bottle</b>	<b>4,237.54</b>			

2018.7	5,147,685.00	cost of comb honey only
	10,265,175.00	Total cost of procurement
2422.44	19,970,595.36	
	9,705,420.36	Profit

The comb honey bought is	<b>2,018.70</b>
The cost of producing 500ml of bottle is	<b>4,237.54</b>
The wholesale price of a bottle of honey is	<b>8,244.00</b>
The contribution margin of each bottle is	<b>4,006.46</b>
The Total Costs (variable + fixed + Overhead) is	<b>10,265,175.00</b>
The Expected Bottles to be produced	<b>2422.44</b>
The Expected Sales at K 8,244 (wholesale) is	<b>19,970,595.36</b>
The Net Profit is	<b>9,705,420.36</b>

So far the number of bottles produced is	<b>889</b>
The number of bottles to breakeven	<b>1246</b>

**BEEKEEPING INFORMATION ON NUMBER OF GROUPS, HIVES & HONEY YIELDS COLLECTED PER AREA**

CHIEFDOM	UNIT	LOG HIVES	GROUPS	BAR HIVES	GROUPS	MALE	FEMALE	MEMBERSHIP	HONEY BOUGHT 2005 (KG)	HONEY BOUGHT 2006 (KG)
Chifunda		400	14	88	9	207	39	246	680	0
Chikwa		291	7	46	7	140	25	165	0	15
Kazembe		280	9	11	4	100	30	130	16	0
Kazembe	Zokwe	161	7	18	2	56	12	68	0	0
Chitungulu		447	8	20	7	135	90	225	0	0
Mwasemphangwe		500	19	96	8	252	116	368	448	205.5
Chikomeni		341	9	59	4	66	29	95	0	139.5
Zumwanda		296	8					0	47.5	910
Magodi		357	17	247	22	291	138	429	451.5	625.2
Research Apiary		25		10						123
<b>TOTAL</b>		<b>3098</b>	<b>98</b>	<b>595</b>	<b>63</b>	<b>1247</b>	<b>479</b>	<b>1726</b>	<b>1643</b>	<b>2018.2</b>

The total number of groups is **161**

The number of hives is **3693**

The honey collected last year 2005 was **1643 kg**

The honey that has been collected for this April - July honey season is **2018.2kg**

**OTHERS:**

**80** smokers have been made at a cost of K2,776,000 hence one smoker costing **34700**

**30** veils have been made from empty cement bags and about 145 will be made as empty cement bags have been sourced.

Therefore, the total number of veils made is now **65**

**HONEY COLLECTED ACCORDING TO UNIT, VAGS & HONEY YIELDS**

CHIEFDOM	VAG	AMOUNT OF HONEY (kgs)
Zumwanda	Central	373.7
	Vubu	450.3
	Vyasoyo	86
Chikwa	Manga	15
Magodi	Boyole	161.5
	Emusa	463.7
Mwasemphangwe	Central	205.5
Chikomeni	Central	139.5
R. Apiary		123
<b>TOTAL</b>		<b>2018.2</b>

**The group that sold more honey**

Name	kg	Villages	Vag	Unit
<i>Kabeleka Mng'oma</i>	197	Kafa, Chitima, Kenani, Matekenya	Vubu	Zumwanda
<i>Boyole</i>	161.5	Seleta, Zibalwe, Kazembe, Zungilile, Katayeni Kajumbile, Chipewa	Boyole	Magodi

Beekeeping Compliance\*

**26%**

\*Compliance while buying was 26%. This was inspected while purchasing and collecting of honey. The deadline for the compliance was 15th July. Therefore, another inspection is to be done to verify those who have complied so that they are back paid.

26% complied were paid at the premium price of K2,550.

**WORKPLAN FROM AUGUST TO DECEMBER**

No	Activity	A U G			S E P T O C T					N O V			D E C							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	Beekeeping Expansion (Lundazi Forest)																			
	a. Beehive Materials procurement				X															
	b. Beehive Making Workshop					X	X	X	X											
	c. Training of Trainers/ Farmers							X	X	X										
	d. Site selection, preparation and stocking								X	X	X	X								
2	Enhancing Performance of Hives																			
	e. Distribution of wax, wires, veils etc		X	X	X	X	X	X	X											
	f. Realigning of apiaries					X	X	X	X	X										
	g. Check their status					X	X	X	X	X										
3	Honey Buying Season																			
	h. Check cropping									X	X			X	X		X			
	i. Delivery of buckets & drums																X			
	j. Dispatching of money																X			
	k. Total Cropping																X	X	X	X