

Challenges and opportunities of dairy farming in Adigrat town, Eastern Tigray, Ethiopia

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QUESTIONNAIRE

Dear Respondents,

The purpose of the questionnaire is to generate relevant information on **challenges and opportunities of dairy farming in Adigrat town, eastern Tigray, Ethiopia**. It is only for academic purposes and be sure that the information you provide is used for this research only. Your full support and willingness' to respond to the question is essential for the success of the study. Therefore, you are kindly requested to answer all questions and give reliable information on the issues.

Thanks in advance for your cooperation.

1. Kebeles_____
2. Age: _____
3. Sex: 1. male 2. Female
4. Educational status: 1. Illiterate 2. Primary 3. Secondary 4. Collage/University
5. Religious: 1. Orthodox 2. Muslim 3. Protestant 4. Catholic 5. Other, specify _____
6. Marital; Status: 1. Single 2. Married 3. Divorced 4. Separated
7. Number of households: 1. <5 2. 5-10 3. >10

Part II: Socio-economic characteristics of the respondents

A. Milk production system

1. Do you keep cattle? 1. Yes 2. No
2. If your answer to question no. 1 is yes, what kind of cattle do you keep?
 1. Local breed 2. Crossbreed
3. If your answer to question no. 1 is yes what is the importance of keeping cattle?
 1. For milk production 3. Home consumption 2. Sources of income 4. Social and cultural functions
4. If your answer for question number 2 is crossbred, how many crossbred cows do you have?
 1. 1-5 2. 6-10 3. More than 10
5. In what way do you feed your dairy animals?
 1. Indoor feeding 2. Grazing in pasture lands 3. In collection feeding
6. What are the sources of your dairy feed? 1. Out production 2. Purchased 3. Both
7. Do you grow fodder crops? 1. Yes 2. No
8. If your answer to question no. 7 is not what is your main reason?
 1. Insufficient land 2. Insufficient labor 3. Insufficient input 4. Insufficient draft animal 5. All
9. Have you ever bought supplementary feed for your animals? 1. Yes 2. No
10. If your Answer for question no. 9 is yes, which feed supplement do you buy?
 1. Oil seed cake 2. Wheat and corn 3. Cotton seed cake 4. All
11. How much cost do you spend on your cattle per month?
 1. 100-1000 2. 1000-2000 3. 2000-3000 4. 3000-4000
12. Do you get enough feed for your cows? 1. Yes 2. No
13. From where do you get water for your animals? 1. The town pipelines 2. The nearby rivers 3. Well
14. For how long did you stay in milk production? 1. 5 years 2. 6-10 years 3. More than 10 years
15. What is the basis of your dairy cows? 1. Purchased 2. Inherited 3. Both 4. If other _____
16. Where is the place of origin of your dairy cows?
 1. In study area 2. Outside study area

B. Milk marketing

17. For what purpose do use the dung of your cattle?

1. Sell 2. Fertilizer 3. Fuel 4. If other _____
18. Did you face with demand problem for milk products? 1. Yes 2. No
19. If your answer for question no. 21 is yes when did you face with demand problem?
1. Fasting month 2. Any month 3. Not applicable
20. At what season do you get more milk for selling?
1. during dry season 2. During Wet season 3. Not determined by season
21. Do you sell milk? 1. Yes 2. No
22. How do you sell your milk?
1. On contract basis 2. On daily sell basis 3. Both. 4. If other _____
23. What criterion do you use in selecting milk marketing? 1. Price 2. Distance 3. Contract 4. All
24. Where is your selling place for your milk?
1. at home 2. At distribution center 3. Home to home Selling 4. If other _____

C. Milk consumption

25. Do your products satisfy for the demands of the people? 1. Yes 2. No
26. Do you think that your supply of milk is enough for the people 1. Yes 2. No
27. For whom do you sell your milk products?
1. To individuals 2. To local markets 3. To milk Collect centers 4. To government institutions
28. How much milk do you produce per day per cow _____?
29. How much milk do you produce per month per cow?
1. 1-4 Liters 2. 5-9 Liters 3. 10-14 Liters 4. 15-20Liters
30. Is there labor division in milk production for improvement of milk yields? 1. Yes 2. No
31. What motivates you to invest in dairy farming? 1. Profitability 2. Part time job 3. Small enterprises
32. Do you have enough income to perform dairy farming? 1. Yes 2. No
33. How much birr did your income increase monthly?
1. 1000 2. 2000 3. 3000
34. What kind of properties did you own after joining dairy farming?
1. Bed and chairs 2. Refrigerator and Television 3. House
35. Did you have these household assets before you join dairy farming? 1. Yes 2. No

D. Opportunity and constraints

36. Do you have enough income to perform dairy farming? 1. Yes 2. No
37. For what purpose do you produce milk? 1. For home consumption 2. For selling.
38. How much milk consumption per year in liter _____?
39. By how much birr did your income increase after joined the dairy farming?
40. What benefit do you get from milk production?
1. Employment opportunity 2. Sufficient food 3. Regular income 4. No benefit
41. What are the Opportunities of Dairy Products?
1. Accessing adequate land 2. Extension service 3. Training services
42. What are the **Constraints of the Dairy Product**?
1. Lack of animal feed 2. Lack of access to credit 3. Lack of formal marketing system
4. Seasonal fluctuation of demand 5. Shortage of grazing lands

Part III. Check list for key informants.

1. Do you believe that dairy farming improves the income of the farmers?
2. What are the opportunities you got after participating in dairy farming?
3. What is the contribution of dairy farming on the improvement of the farmers' income?
4. What are the challenges that you face during your dairy farming? List them?
5. What do you think that the solution for the explained problems?
6. What kind of durable properties do you own?
7. What do you think the role of dairy farming?