

Commercial Livestock Integrated Survey 2021

Main Questionnaire

CONFIDENTIALITY: The individual information provided by the respondent in this questionnaire is strictly confidential as per Statistics Act 2015. They will be used only for statistical purposes

OBLIGATION: It is obligatory for all related individuals to provide the information required by this questionnaire and help the Central Bureau of Statistics, Nepal.

OBJECTIVE: The objective of the survey is to collect economic, social and environmental data on livestock raising activities from the commercial livestock farm to be used in preparing policies and plans for the development of the agricultural



Government of Nepal
Ministry of Agriculture and
Livestock Development



Government of Nepal
National Planning Commission
Central Bureau of Statistics



Food and Agriculture
Organization of the
United Nations

SECTION 1: INTRODUCTION INFORMATION

Selected farm's S.N.

1.1 Province :.....

1.2 District :.....

1.3 Local Level :

1.4 Ward Number

1.5 Village/Tole Name :.....

1.6 Serial Number of Livestock farm from listing

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1.7 Type of Livestock farm (Type of farm and code are given below)

1.8 GPS Code of farm

1.9 Name of Livestock farm/Main Holder

1.10 Name of Respondent

1.11 Contact Number

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Operator/Himself a Head of farm

Manager

1.12 Position of respondent in the holding/farm

Employee

Household Member

Type of Farm and code:	Cow farm	- 1	Pig farm for meat purpose	- 6
	Buffalo farm	- 2	Female Pig farm for reproduction	- 7
	Male Buffalo farm	- 3	Cow and Buffalo farm (mixed)	- 8
	Goat/ Mountain goat farm	- 4	Goat/Mountain goat and Sheep farm (mixed)	- 9
	Sheep farm	- 5	Cow/ Buffalo and Goat/Mountain goat/Sheep (mixed)	- 10

Name of Enumerator:.....

Name of Supervisor:.....

Signature :.....

Signature :.....

Date of enumeration :.....

Date of Supervision :.....

SECTION 2: INFORMATION ON LIVESTOCK FARM

Part 2.1 General information of livestock farm

2.1.1 Since when has this farm been in operation? BS

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2.1.2 Do you register your livestock farm?

- Yes
- No → 2.1.4

2.1.3 Which of the following place of registrations? (Multiple answer)

- District Agriculture Development Office/Agriculture Knowledge Center
- District Livestock Service Office / Veterinary Hospital and Livestock Service Expert Center
- Local level
- Department of Cottage and Small-Scale Industries/Office
- Company Registered Office
- Others

2.1.4 What is the status of the farm ?

- Personal
- Private Limited
- Partnership
- Nepal Government/Semi government
- Cooperative
- Other

2.1.5 Does the farm record its financial activities on registers or logbooks?

- Yes, systematically
- Yes, only occasionally or partially
- No, never

Part 2.2 Information about holder of the farm

2.2.1 Name of main holder:.....

2.2.2 How many operation members are engaged in operation of the farm?

2.2.3 Main holder Contact Number.....

2.2.4 Email:

2.2.5 Sex of main holder

- Male
- Female

2.2.6 Age of main holder (completed year)

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2.2.7 Highest level of education completed of main holder

- Illiterate
- Less than primary
- Basic education (1 to 8 class)
- Secondary level (9 to 12 class)
- Upper secondary/ University education

2.2.8 Has the main holder ever received any formal training on livestock farming?

- Yes
- No

2.2.9 What is the share of working time spent working on the farm.

- Less than half (< 40 %)
- About half (40%-59%)
- Most/almost all (60% -99%)
- All (100%)

2.2.10 Does the main operator have another gainful activity outside of the farm,

- Yes
- No

2.2.11 Who is the manager of this farm?

- Operator own
- Other person Manager

SECTION 3 : INFORMATION ON LIVESTOCK RAISING

3.1 RAISING CATTLE AND ITS PRODUCTION

3.1.0 Are cattle raised on the farm in the day of enumeration?

- Yes
 No → 3.2.0

3.1.1 Information on Cattle raising number

Cattle raised on the farm		Number of cattle in the day of enumeration			Number of births during reference year	Number of death cattle during reference year			Number of lost cattle during the reference year	Number of cattle gifted to other during the reference year	Number of cattle purchased during reference year	Number of cattle sold during reference year	Total selling price during reference year (Rs.)	Number of cattle received in full subsidies or free of cost
		Total	Local	Improve		Death from natural /accidental causes	Death from diseases	Death from natural disasters						
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Cattle	Under 1 year	Male calf												
		Female calf												
	1 year to under 3 yrs.	Male calf												
		Female calf												
	3 years or over	Ox												
		Milking cow												
Non milking cow														

3.1.2 Number of 3 years and over age of cows with different breeds and milk production

Name of animal	S. No.	Varieties	Total Number	Number of cows in lactation at day of enumeration	Do you allow calves to suckle directly from a cow? 1 Yes 2 No	Daily average milk production (Liter)	Average lactation period (in month)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Cow	1	Local					
	2	Jersey/Jersey crossbreed					
	3	Holstein/Holstein crossbreed					
	4	Others(improved)					

3.1.3 Report the quantity of milk used in the following way during the last week from the enumeration day.

- Quantity of sold milk (liter)
- Quantity of processed on the farm into milk products (liter)
- Quantity of own use for own consumption (liter)
- Quantity of given to calf animals (liter)
- Quantity of wasted or lost (liter)
- Quantity of other use (liter)

3.1.4 If milk sold, average price of milk per liter Rs.

3.1.5 Did the farm have a marketing contract for the milk production of cow in the reference year?

- Yes
- No → 3.1.7

3.1.6 What percentage of milk production was covered by marketing contract in the reference year? %

3.1.7 What was the major feeding practices for the cattle during the reference year?

- Feeding/grain
- Straw/green grass /silage
- Grazing

3.1.8 What was the sources of feed used during the reference year? (Multiple answer)

- Produced on the farm
- Purchased
- Common pasture
- Exchanged

3.1.9 What was the main type of animal housing system that was used for cattle on the farm during the reference year?

- Managed
- Semi managed
- Traditional

3.1.10 Were the farm raised bull/ox for the purpose of reproduction during the reference year ?

- Yes, Number

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- No

3.2 RAISING BUFFALOES AND ITS PRODUCTION

3.2.0 Are buffalos raised on the farm in the day of enumeration?

- Yes
 No → 3.3.0

3.2.1 Information on Buffalo raising number

Buffaloes raised on the holding			Number of buffalo in the day of enumeration			Number of births during reference year	Number of death buffalo during reference year			Number of lost buffalo during the reference year	Number of buffalo gifted to other during the reference year	Number of buffalo purchased during reference year	Number of buffalo sold during reference year	Total selling price during reference year (Rs.)	Number of buffalo received in full subsidies or free of cost
			Total	Local	Improve		Death from natural /accidental causes	Death from diseases	Death from natural disasters						
(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Buffalo	Under 1 year	Male													
		Female													
	1 year to under 3 yrs.	Male													
		Female													
	3 years or over	Bull													
		Milking buffalo													
		Non milking buffalo													

3.2.2 Number of 3 years and over age of buffalo with different breeds and milk production

Name of animal	S.No.	Varieties	Total Number	Number of buffalo in lactation at the day of enumeration	Do you allow calves to suckle directly from a buffalo? 1 Yes 2 No	Daily average milk production (Liter)	Average lactation period (in month)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Buffaloes	1	Local					
	2	Murrah					
	3	Murrah cross					
	4	Nili-ravi					
	5	Others(improved)					

3.2.3 Report the quantity of milk used in the following way during the last week from the enumeration day.

- Quantity of sold milk (liter)
- Quantity of processed on the farm into milk products (liter)
- Quantity of own use for human consumption (liter)
- Quantity of given to young animals (liter)
- Quantity of wasted or lost (liter)
- Quantity of other use (liter)

3.2.4 If milk sold, average price of milk per liter Rs.

3.2.5 Did the farm have a marketing contract for the milk production of buffalo in the reference year?

- Yes
- No → 3.2.7

3.2.6 What percentage of milk production was covered by marketing contract in the reference year? %

3.2.7 Were any buffalo slaughtered for meat on the farm during the reference year?

- Yes
- No → 3.2.13

3.2.8 Give the information about buffalo slaughtered on the farm during the reference year.

- Number of slaughtered
- Total carcass weight obtained (Kg)

3.2.9 Report the quantity of buffalo meat used in the following ways during the reference year-slaughtered on the farm.

- Quantity of meat sold (Kg)
- Quantity of meat for own use (Kg)
- Quantity of meat given to service or input providers (Kg)
- Destroyed stored meat by disasters (Kg)

3.2.10 What is the average price per Kg, if meat sold? Rs.

3.2.11 Did the farm have a marketing contract for the meat production of buffalo in the reference year?

- Yes
- No → 3.2.13

3.2.12 What percentage of meat production was covered by marketing contract in the reference year? %

3.2.13 What was the major feeding practices for the buffalo during the reference year?

- Feeding/grain
- Straw/green grass /silage
- Grazing

3.2.14 What was the sources of feed used during the reference year? (Multiple answer)

- Produced on the farm
- Purchased
- Common pasture
- Exchanged

3.2.15 What was the main type of animal housing system that was used for buffalo on the farm during the reference year?

- Managed
- Semi managed
- Traditional

3.2.16 Were the farm raised bull for the purpose of reproduction during the reference year ?

Yes, Number

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No

3.3 RAISING GOAT/MOUNTAIN GOAT AND ITS PRODUCTION

3.3.0(1) Are Goat raised on the farm in the day of enumeration?

- Yes
 No

3.3.0(2) Are Mountain goat raised on the farm in the day of enumeration?

- Yes
 No

(If goat and mountain goat both are not raised on the farm during the reference day, then the skip to the question 3.4.0)

3.3.1 Information on Goat/Mountain goat raising number

Goat/Mountain goat raised on the farm			Number of goat/mountain goat in the day of enumeration			Number of births during reference year	Number of death livestock during reference year			Number of lost livestock during the reference year	Number of livestock gifted to other during the reference year	Number of livestock purchased during reference year	Number of livestock sold during reference year	Total selling price during reference year (Rs.)	Number of livestock received in full subsidies or free of cost
			Total	Local	Improve		Death from natural /accidental causes	Death from diseases	Death from natural disasters						
(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Goat	Under 6 months	M kid													
		F kid													
	6 months or over	He goat													
		She goat													
Mountain goat	Under 6 months	M kid													
		F kid													
	6 months or over	He M. goat													
		She M. goat													

3.3.2 Provide the number of improve goat breeds raised on the farm in the day of enumeration.

S.No.	Improve goat breeds	Number
1	Jamnapari	
2	Barbari	
3	Sannen	
4	Boer	
5	Beetal	
6	Black Bengal	
7	Ajmeri	
8	Khari	
9	Other (Improve)	

3.3.3(1) Were any goat slaughtered for meat on the farm during the reference year?

- Yes
 No

3.3.3(2) Were any mountain goat slaughtered for meat on the farm during the reference year?

- Yes
 No

(If any goat and mountain goat both were not slaughtered on the farm during the reference year, then the skip to the question 3.3.9)

3.3.4 Give the information about goat/mountain goat slaughtered on the farm during the reference year.

- Number of slaughtered
 Total carcass weight obtained (Kg)

Goat	Mountain goat

3.3.5 Report the Quantity of goat/mountain goat meat used in the following ways during the reference year- slaughtered on the farm.

- Quantity of meat sold (Kg)
- Quantity of meat for own use (Kg)
- Quantity of meat given to service or input providers (Kg)
- Destroyed stored meat by disasters (Kg)

Goat	Mountain goat

3.3.6 What is the average price per Kg, if meat sold? Rs.

Goat	Mountain goat

3.3.7 Did the farm have a marketing contract for the meat production of goat/mountain goat in the reference year?

- Yes
- No → 3.3.9

3.3.8 What percentage of meat production was covered by marketing contract in the reference year?

%

3.3.9 Were the farm produced raw pashmina of mountain goat during the reference year?

- Yes
- No → 3.3.14

3.3.10 Report the pashmina production of mountain goat during the reference year.

- Quantity of raw pashmina produced (Kg)
- Quantity of raw pashmina sold (Kg)
- Quantity of stored raw pashmina destroyed by disasters (Kg)

3.3.11 What is the average price per Kg, if pashmina sold? Rs.

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3.3.12 Did the farm have a marketing contract for pashmina production of mountain goat in the reference year?

- Yes
- No → 3.3.14

3.3.13 What percentage of pashmina production was covered by marketing contract in the reference year?

%

3.3.14 What was the major feeding practices for the goat/mountain goat during the reference year?

- Grazing
- Straw/green grass /silage
- Feeding/grain

3.3.15 What was the sources of feed used during the reference year? (Multiple answer)

- Produced on the farm
- Purchased
- Common pasture
- Exchanged

3.3.16 What was the main type of animal housing system that was used for goat/mountain goat on the farm during the reference year?

- Managed
- Semi managed
- Traditional

3.3.17 Were the farm raised he goat for the pupropse of reproduction during the reference year?

- Yes, Number
- No

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3.4 RAISING SHEEP AND ITS PRODUCTION

3.4.0 Are sheep raised on the farm in the day of enumeration?

- Yes
 No → 3.5.0

3.4.1 Information on Sheep raising number

Sheep raised on the farm			Number of sheep in the day of enumeration			Number of births during reference year	Number of death sheep during reference year			Number of sheep lost during reference year	Number of sheep gifted to other during the reference year	Number of sheep purchased during reference year	Number of sheep sold during reference year	Total selling price during reference year (Rs.)	Number of sheep received in full subsidies or free of cost
			Total	Local	Improve		Death from natural /accidental causes	Death from diseases	Death from natural disasters						
(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Sheep	Under 6 month	M lamb													
		F lamb													
	6 months or over	M Sheep													
		F Sheep (Ewe)													

3.4.2 Provide the number of improved sheep breeds raised on the farm in the day of enumeration?

S. No.	Name of improved sheep breeds	Number
1	Merino	
2	Rambouillet	
3	Coopworth	
4	Polwarth	
5	Kage	
6	Lampuchhre	
7	Baruwal	
8	Other (Improved)	

3.4.3 Were any sheep slaughtered for meat on the farm during the reference year?

- Yes
- No → 3.4.9

3.4.4 Give the information about sheep slaughtered on farm during the reference year.

- Number of sheep slaughtered
- Total carcass weight obtained (Kg)

3.4.5 Report the Quantity of sheep meat used in the following ways during the reference year- slaughtered on the farm.

- Quantity of meat sold (Kg)
- Quantity of meat for own use (Kg)
- Quantity of meat given to service or input providers (Kg)
- Destroyed stored meat by disasters (Kg)

3.4.6 What is the average price per Kg, if meat sold? Rs.

3.4.7 Did the farm have a marketing contract for the meat production of sheep in the reference year?

- Yes
- No → 3.4.9

3.4.8 What percentage of meat production was covered by marketing contract in the reference year? %

3.4.9 Were the farm produced raw wool of sheep during the reference year?

- Yes
- No → 3.4.14

3.4.10 Report the wool production of sheep during the reference year.

- Quantity of raw wool produced (Kg)
- Quantity of raw wool sold (Kg)
- Quantity of stored raw wool destroyed by disasters (Kg)

3.4.11 What is the average price per Kg, if wool sold?

3.4.12 Did the farm have a marketing contract for the wool production of sheep in the reference year?

Yes

No → 3.4.14

3.4.13 What percentage of wool production was covered by marketing contract in the reference year?

3.4.14 What was the major feeding practices for the sheep during the reference year?

Grazing

Straw/green grass /silage

Feeding/grain

3.4.15 What was the sources of feed used during the reference year? (Multiple answer)

Produced on the farm

Purchased

Common pasture

Exchanged

3.4.16 What was the main type of animal housing system that was used for sheep on the farm during the reference year?

Managed

Semi managed

Traditional

3.4.17 Were the farm raised he sheep (ram) for the purpose of reproduction during the reference year ?

Yes, Number

No

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3.5 RAISING PIG AND ITS PRODUCTION

3.5.0 Are pig raised on the farm in the day of enumeration?

- Yes
 No → Section 4

3.5.1 Information on Pig raising number

Pig raised on the farm		Number of pig in the day of enumeration			Number of births during reference year	Number of death pig during reference year			Number of pig lost during reference year	Number of pig gifted to other during the reference year	Number of pig purchased during reference year	Number of pig sold during reference year	Total selling price during reference year (Rs.)	Number of pig received in full subsidies or free of cost
		Total	Local	Improve		Death from natural /accidental causes	Death from diseases	Death from natural disasters						
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Pig	Under 6 month	M kid												
		F kid												
	6 months or over	He pig												
		She pig												

3.5.2 Provide the number of pig by breeds raised on the farm in the day of enumeration.

S.No.	Improve pig breeds	Number
1	Chwanche	
2	Banmpudke	
3	Hurra	
4	Hampshire	
5	Landrace	
6	Duroc pig	
7	Meishan	
8	Pakhribas black/Dharane black pig	
9	Other	

3.5.3 Were any pig slaughtered for meat on the farm during the reference year?

- Yes
- No → 3.5.9

3.5.4 Give the information about pig slaughtered on the farm during the reference year.

- Number of pigs slaughtered

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- Total carcass weight obtained

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 (Kg)

3.5.5 Report the Quantity of pig meat used during the reference year- slaughtered on the farm.

- Quantity of meat sold (Kg)

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- Quantity of meat for own use (Kg)

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- Quantity of meat given to service or input providers (Kg)

--
- Destroyed stored meat by disasters (Kg)

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3.5.6 What is the average price per Kg, if meat sold? Rs.

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3.5.7 Did the farm have a marketing contract for the meat production of pig in the reference year?

- Yes
- No → 3.5.9

3.5.8 What percentage of meat production was covered by marketing contract in the reference year?

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 %

3.5.9 What was the major feeding practices for the pig during the reference year?

- Feeding/grain
- Crops and by-products
- Waste from Industry/hotel/household

3.5.10 What was the sources of feed used during the reference year? (Multiple answer)

- Produced on the farm
- Purchased
- Common pasture
- Exchanged

3.5.11 What was the main type of animal housing system that was used for pig on the farm during the reference year?

- Managed
- Semi managed
- Traditional

3.5.12 Were the farm raised he pig for the purpose of reproduction during the reference year ?

Yes, Number

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No

SECTION 4: INFORMATION ON LAND USED BY LIVESTOCK FARM

Unit of Area: Bigha 1

Ropani 2

4.1 Information about area of land tenure owned by holding in total and for livestock farm purposes only during the day of enumeration

S.No.	Types of Land Tenure	Total land of holding			Land for livestock farm only		
		B/R	K/A	D/P	B/R	K/A	D/P
1	Owned land						
2	Rented from other						
3	Other type of land tenure						

4.2 Information about area of land use owned by holding and for livestock farm purposes during reference year

S.No.	Land use	Total land of holding			Land for livestock farm only		
		B/R	K/A	D/P	B/R	K/A	D/P
1	Land under temporary crops						
2	Land under temporary meadows and pastures						
3	Land under temporary fallow						
4	Land under permanent crops						
5	Land under permanent meadows and pastures						
6	Land under farm buildings and farmyards						
7	Land under forest and other wooded land						
8	Land under pond						
9	Other land (unutilized, rocks, wetlands, etc.)						

4.3 Provide the information about name of crop, area and production of major crops during reference year. (Ask this question, if land under temporary or permanent crop is reported in question 4.2)

S. No.	Name of crop	Area			Quantity of production (Kg.)	Quantity used for household consumption (Kg.)	Quantity used for animal feed (Kg.)	Quantity of sold (Kg.)	Average selling price per Kg. (Rs.)
		B/R	K/A	D/P					
(1)	(2)	(3)			(4)	(5)	(6)	(7)	(8)
1	First main crop								
2	Second main crop								
3	Third main crop								
4	Fourth main crop								
5	Fifth main crop								
6	Fodder crop 1								
7	Fodder crop 2								
8	Fodder crop 3								

SECTION 5 ECONOMY ACTIVITIES DURING THE REFERENCE YEAR

PART 5.1 OTHER ACTIVITIES OF THE LIVESTOCK FARM

5.1.1 Does the farm have other commercial agriculture activities than this farm?

- Yes
 No → 5.1.3

5.1.2 If yes, what is the other major commercial agriculture activities?

- Cereal crops Vegetable crops
 Fruit crops Cash crops (Tea, Coffee, Sugarcane, Cardamom etc.)
 Poultry Fishery
 Bee keeping Mushroom farming
 Floriculture Others

5.1.3 Does the farm have other non-commercial agriculture activities than this farm?

- Yes
 No → 5.1.5

5.1.4 If yes, what is the other major non-commercial agriculture activities?

- Cereal crops Vegetable crops
 Fruit crops Cash crops (Tea, Coffee, Sugarcane, Cardamom etc.)
 Poultry Fishery
 Bee keeping Mushroom farming
 Floriculture Others

5.1.5 What was the status of profit/loss of the farm during the last three years?

- Loss for all three years
- Profitable in one out of the three years
- Profitable in two out of the three years
- Profitable in all three years
- Not applicable

5.1.6 Did the farm receive credit facility from bank or finance company for livestock raising during the reference year?

- Yes
- No → 5.1.8

5.1.7 Did the farm receive loan for livestock raising with interest subsidy during the reference year?

- Yes
- No

5.1.8 Did the farm receive subsidy/grant from government for livestock raising during the reference year?

- Yes
- No

5.1.9 Did the farm insurance of livestock during the reference year?

- Yes → 5.1.11
- No

5.1.10 Why was the farm not secured by insurance during reference year?

- Inaccessible
- Expensive
- Not necessary
- No imbursement from insurance claim
- Service not provided by company
- Don't know

5.1.11 Did the farm practice agro-tourism during the reference year?

- Yes
- No → 5.2.1

5.1.12 Provide the total income from agro tourism during the reference year?

Rs....

PART 5.2 CURRENT AND CAPITAL EXPENDITURE ON THE FARM DURING THE REFERENCE YEAR

5.2.1 Provide the information of current expenditure for livestock rearing purposes only by the farm during the reference year?

S. No.	Topics of current expenditures	Total expenditure (Rs.)
1	Salary/Wage	
2	Seed, Nursery	
3	Purchase of animal kid for sale or meat production purpose	
4	Processed feed for livestock	
5	Other feed for livestock (grass, cereal etc)	
6	Chemical manure	
7	Organic/Compost manure	
8	Pesticide	
9	Medicine/Vaccine	
10	Irrigation	
11	Water	
12	Electricity	
13	Fuel	
14	Communication	
15	Transportation	
16	Tax/member and renew fee	
17	Insurance	
18	Rent of house/land	
19	Bank commission/service charge fee	
20	Bank interest of loan	
21	Minor repair and purchased of material	
22	Operating cost	
23	Donation/gift	
24	Other current expenditure	
Total		

5.2.2 Provide the information of capital expenditure and sale for livestock rearing purposes only by the farm during the reference year?

S. No.	Topics of Capital asset	Total expenditure (Rs.)	Total Selling price (Rs.)
1	Land		
2	Building (Purchased/repair)		
3	Purchase of animal kid for milk, wool production or reproduction purpose		
4	Agriculture equipment/modern machinery		
5	Computer/Printer		
6	Vehicle		
7	Repair of capital asset		
8	Furniture		
9	Other capital asset		
Total			

PART 5.3 INFORMATION ABOUT SHOCKS ON THE FARM

5.3.1 Did any severe shocks hit on the farm during the reference year ?

- Yes
 No → 5.3.7

5.3.2 Identify the three most severe shocks experienced on priority basis.

Shocks		Priority S.No.	Code of Shocks
1	Drought	1	
2	Partial rainfall/Erratic rains	2	
3	Floods/ Sink/Landslides	3	
4	Cold waves		
5	Hailstone		
6	Loss from wildlife		
7	Fire		
8	Unusually low prices for output		
9	Storm		
10	Unusually high level of livestock/crop diseases		
11	Unusually high prices for livestock/agricultural inputs		
12	Theft of agricultural assets, outputs, money or valuables		
13	Unusually high food prices of livestock feed		

5.3.3 What was the farm's response to mitigation of shocks on the farm during the reference year?

(Write three main response at most.)

		Priority S.No.	Code of response to Shock
1	Sold land and/or buildings	1	
2	Sold grass crops and/or livestock	2	
3	Sold machine and equipment including other assets	3	
4	Found other work except livestock		
5	Received help from government		
6	Received help from NGOs or other organizations		
7	Reduced expenses on the farm (labour cost, capital cost etc.)		
8	Received loan		
9	Received compensation from insurance		
10	Own savings		
11	None of the above		

5.3.4 Has the farm fully recovered from the shocks?

- Yes
 No

5.3.5 Do you find that the farm is now better able to cope with the shocks?

- Yes
 No

5.3.6 What is your general perception of the level of severity of shocks compared to the past?

- Similar
- Greater
- Lower

5.3.7 Has Covid 19 affected on your livestock farm?

- Yes
- No → 5.3.9

5.3.8 If yes, What is the impact of Covid 19 on your livestock farm? (Multiple answer)

- | | |
|---|---|
| <input type="radio"/> Lack of market | <input type="radio"/> Lack of capital |
| <input type="radio"/> Lack of manure | <input type="radio"/> Decline in the price of the product |
| <input type="radio"/> Lack of animal kid | <input type="radio"/> Difficult in payment of loan |
| <input type="radio"/> Lack of agriculture machinery | <input type="radio"/> Risk in investment |
| <input type="radio"/> Lack of labour | <input type="radio"/> Lack of transportation |
| <input type="radio"/> Lack of animal feed | <input type="radio"/> Lack of treatment |
| <input type="radio"/> Lack of technician service | <input type="radio"/> Delay in receiving the payment of product |

5.3.9 Use, number and loss of agriculture machinery/equipment on the farm during the reference year

S. No.	Equipment	Total number in use on the day of enumeration	Was this used in the farm during the reference year		Number of destroyed by disasters in the reference year
			Yes 1	No 2	
(1)	(2)	(3)	(4)		(5)
1	Milking machine				
2	Chaff cutter				
3	Rubber mat				
4	Milk Tanker				
5	Cold Chain Van				
6	Milk chilling Vat				
7	Baling machine				
8	Dryer				
9	Feeder				
10	Feeder waterer				
11	Wheel barrow				
12	Shallow Tube Well				
13	Deep Tube Well				
14	Pump set				
15	Tractor				
16	Animal Drawn Cart				
17	Refrigerator				
18	Generator				
19	Sprayer				
20	Pressure cleaner				
21	Feed mill machine				
22	Other Equipment				

SECTION 6 EMPLOYMENT, NON-RESIDENTIAL BUILDING AND USE OF INFORMATION ON FARM

6.1 Were workers hire for livestock raising activities on the farm during reference year?

- Yes
 No → 6.3

6.2 Number of workers used for livestock raising activities on the farm during reference year?

S. No.	Types of worker	Permanent worker		Temporary worker (Men-days)	
		Male	Female	Male	Female
(1)	(2)	(3)		(4)	
1	Family member/Proprietor				
2	Manager/Administrators				
3	Skill workers				
4	Unskilled workers				
5	Total				

6.3 Did the farm use contract workers for livestock raising activities on the farm during the reference year?

- Yes
 No

6.4 Did the farm experience a shortage of livestock workers during the reference year ?

- Yes
 No → 6.6

6.5 What was the farm's main response for the shortage of livestock workers? (Multiple answer)

- Rented on contract to other
 Only partial activities were carried on
 By increasing own engagement on the farm
 Limited to livestock activities with less labour required.
 Using modern machine
 Stopping the livestock activities

6.6 Number of non-residential buildings by use and tenure.

S. No.	Types of utilization	Total Number	Tenure (Number)		
			Own	Rented	Other
(1)	(2)	(3)	(4)	(5)	(6)
1	For office operation				
2	For livestock raising				
3	For livestock product storage				
4	For management of agriculture equipment and machinery				
5	For store of feed, seed and manure				
6	For other activities				

6.7 For which of the activities, the information was used by the farm during the reference year ?.

(Multiple answer)

- Livestock feed issues
- Prices of outputs (product)
- Livestock health and breeding issues
- Weather forecasts affecting on production
- Grant/incentive issues
- Availibility of inputs (including machinery and equipment) and prices of input
- Value add/ chain (storage, processing, packageing etc.)
- No any information used → 7.1.1

6.8 Identify the sources of information about livestock during the reference year. (Multiple answer)

- Government or other public institutions
- Other individual farmer
- Farmers' group or association
- Non Government Organization or non-governmental project
- Private technician/Service provider
- Agro-vet
- Others

6.9 Identify the method used for getting information about livestock? (Multiple answer)

- Face-to-face discussions
- Telephone
- Radio
- Televison
- Internet (Website)
- Newspaper
- Mobile app
- Other

SECTION 7 PRODUCTION METHOD AND ENVIRONMENT

PART 7.1 ENERGY SOURCES DURING REFERENCE YEAR

7.1.1 Identify the energy sources used by the farm for livestock activity during the reference year.

(Multiple answer)

- Electricity
- Petroleum fuels
- Biomass (wood, plant material, etc.)
- Biogas
- Solar energy
- Other energy or fuel
- None

PART 7.2 LIVESTOCK PRODUCTION METHOD

7.2.1 ANIMAL BREEDING AND REPRODUCTION DURING THE REFERENCE YEAR

7.2.1.1 Were veterinary services used on the farm during the reference year?

- Yes
- No → 7.2.1.3

7.2.1.2 Identify the types of veterinary services used by the farm for livestock during the reference year. (Multiple answer)

- Curative
- Preventive
- Breeding

7.2.1.3 Identify the main breeding technique for livestock used on the farm during the reference year.

- Natural breeding technique
- Artificial breeding technique

7.2.1.4 Identify the main provider of breeding services for the livestock on the farm during the reference year.

- Private service provider
- Government service provider
- Self-managed
- Rural livestock health workers
- Other

7.2.1.5 Were antibiotics used on livestock on the farm during the reference year?

- Yes
- No

7.2.1.6 Were antibiotics used as growth promoter on livestock on the farm during the reference year?

- Yes
- No
- Don't know

7.2.1.7 Was traditional medicine applied on the livestock on the farm during the reference year?

- Yes
- No →7.2.1.9

7.2.1.8 Identify the objectives of the traditional medicine applied on livestock during the reference year. (Multiple answer)

- Curative
- Preventative
- Breeding
- Other
- None

7.2.1.9 Did the farm adopt special measures to control livestock diseases?

- Yes
- No →7.2.2.1

7.2.1.10 Which of the following measures did this farm adopt in relation to livestock diseases control? (Multiple answer)

- Adherence to label directions for medicine application
- Use biological medicine control
- Adopting pasture rotation
- Maintenance and cleansing of spray equipment after use
- Quarantining to livestock
- Use of disease resistant/tolerant livestock breed

7.2.2 WATERING OF ANIMALS DURING THE REFERENCE YEAR

7.2.2.1 Identify the main source of water used for watering livestock during the reference year.

- Borehole
- Well
- Tap water
- River, spring or stream
- Dam, lake, pond
- Rainwater harvesting
- Other

7.2.2.2 Were problems encountered in watering to livestock during the reference year?

- Yes
- No →7.2.3.1

7.2.2.3 Identify the main problem encountered in watering to livestock during problematic periods.

- Restricted access to water sources
- Lack of water in usual water sources
- Poor quality of usual water sources
- Other

7.2.2.4 Identify the solution that was implemented to provide water to livestock during problematic periods. (Multiple answer)

- Use of another water source near the farm, for free
- Use of another water source near the farm, with payment
- Use of another water source far from the farm, for free
- Use of another water source far from the farm, with payment

7.2.3 MANURE MANAGEMENT DURING THE REFERENCE YEAR

7.2.3.1 Identify the types of manure produced on the farm during the reference year. (Multiple answer)

- Farm yard manure
- Compost manure
- Bio gas slurry
- None →7.3.1

7.2.3.2 Was manure produced on this farm sold or given to others during the reference year?

- Yes
- No →7.2.3.4

7.2.3.3 Report the quantity of manure that was produced on this farm, sold or given to others during the reference year

- Quantity of manure that was sold
- Quantity of manure that was exchanged for goods and/or services
- Quantity of manure that was given for free

Quantity (Kg)	Selling price (Rs.)

7.2.3.4 Report Percentage of that manure was managed using each of the following manure management systems during the reference year.

- Traditional percent
- Improved percent

7.2.3.5 Was manure produced on the farm used for other purposes during the reference year?

- Yes
- No →7.3.1

7.2.3.6 Report the purpose of the manure produced on the farm during the reference year. (Multiple answer)

- For fuel (including heating)
- For construction
- For feed

PART 7.3 ACCESS TO AND USE OF INFORMATION, INFRASTRUCTURE AND COMMUNAL RESOURCES

7.3.1 LIVESTOCK INFORMATION DURING THE REFERENCE YEAR

7.3.1.1 Were the farm kept information about market conditions before selling products during the reference year?

- Yes
- No

7.3.1.2 From where did the farm had taken the technician's service for livestock during the reference year? (Multiple answer)

- Own technician
- Government
- Non government
- No service →7.3.1.4

7.3.1.3 Was there sufficient technical service required on the farm during the reference year?

- Yes →7.3.2.1
- No

7.3.1.4 Identify the main reason for not using/not sufficient the services of technician during the reference year.

- Not necessary
- Far away
- Service provider was too busy
- Service provider was not available
- Unwilling to visit
- More expensive
- Other

7.3.2 INFRASTRUCTURE (TRANSPORTATION, COMMUNICATIONS AND ACCESS TO FACILITIES) DURING THE REFERENCE YEAR

7.3.2.1 Identify the purpose of vehicles available on the farm during the reference year. (Multiple answer)

- For transporting livestock
- For transporting feed and grass crop products
- For transporting water or other liquids
- For transporting with refrigerate/moisture
- Other
- None

7.3.2.2 Provide the information on access to a following facility , transportation facility and required time for the farm during reference year

S. No.	Types of facilities	Access Yes 1 No 2	Types of vehicle	Time	
				Hour	Minute
1	Market				
2	Livestock haat bazar				
3	Livestock service offices				
4	Private veterinary clinic				
5	Agro-vet/medical shop				
6	Rural livestock health workers				
7	Milk moisture center				
8	Livestock product processing center				

- | Code | Vehicle |
|------|----------------|
| 1 | By foot |
| 2 | Cycle/rickshaw |
| 3 | Motorcycle |
| 4 | Wheel vehicle |
| 5 | Mixed |
| 6 | Other |

7.3.2.3 Are you aware of any specific livestock development projects being carried out in the farm's community or neighbourhood during the reference year?

- Yes
- No →7.3.2.7

7.3.2.4 Did the farm participate in the livestock development project(s)?

- Yes
- No →7.3.2.6

7.3.2.5 What was the objective of livestock development project(s) on which farm participate?

- Capacity building
- Mechanization and infrastructural development
- Productivity and market growth
- Support in factors of production like seeds/animal breed
- Other

→ 7.3.2.7

7.3.2.6 Identify the main reason why the farm did not participate in the livestock development project(s).

- Not interested in participating
- Being busy
- Lack of opportunity
- Lack of getting information
- Other

7.3.2.7 Were there facilities for repairing agricultural machinery or equipments near the farm during the reference year?

- Yes
- No →7.3.3.1

7.3.2.8 Did the farm use the repair facilities?

- Yes →7.3.3.1
- No

7.3.2.9 Identify the main reason why the farm did not use the repair facilities.

- By knowing yourself
- Not necessary
- Too expensive
- Other

7.3.3 ACCESS TO COMMUNAL RESOURCES DURING THE REFERENCE YEAR

7.3.3.1 Was there communal grazing land in the farm's neighbourhood during the reference year?

- Yes
- No →7.3.3.4

7.3.3.2 Did the farm use this communal grazing land during the reference year?

- Yes →7.3.3.4
- No

7.3.3.3 Identify the main reason for not using the communal grazing land during the reference year.

- Not necessary because enough feed was available on the farm
- No access granted
- Problems with other users
- Problems with the quality and quantity of pasture
- Other

7.3.3.4 Was there communal forest or other wooded land in the farm's neighbourhood during the reference year?

- Yes
- No →7.4.1

7.3.3.5 Did the farm use this communal forest or other wooded land for livestock rearing purpose during the reference year?

- Yes →7.4.1
- No

7.3.3.6 Identify the main reason for not using the communal forest or other wooded land during the reference year.

- Not necessary because the forest land on the farm was sufficient for the farm's activities
- Too expensive
- No access granted
- Problems with other users
- Problems with the quality and quantity of forest or other wooded land
- Other

PART 7.4 WASTE MANAGEMENT

7.4.1 Identify the types of waste generated by the farm during the reference year. (Multiple answer)

- Veterinary waste
- Empty packaging of seeds/medicine/pesticides/fertilizer/petroleum products
- Non-functioning livestock/agriculture inputs/materials
- Ropes and nets
- Pesticides that are no longer usable
- Other non-hazardous organic waste
- Other non-hazardous inorganic waste
- None of the above

7.4.2 Identify the treatment used by the farm for the solid waste generated on the farm during the reference year. (Multiple answer)

- Waste taken away from the farm by a professional
- Waste kept on the farm, treated by burning
- Waste kept on the farm, treated by burying
- Waste kept on the farm, using as organic manure
- Waste kept on the farm, other treatment
- No treatment

7.4.3 Identify the method used during the reference year to manage the waste water generated by the farm. (Multiple answer)

- Managed by digging a hole
- Discharged to a septic or sewer system
- Used as manure on agricultural land
- Used as making liquid manure
- Not managed
- Other

7.4.4. How did managed of dead livestock on the farm during the reference year?

- Buried on the farm
- Incinerated
- Collected by off-farm collection service
- Other
- No dead livestock

PART 7.5 ADAPTATION TO CLIMATE CHANGE AND MITIGATION STRATEGIES

7.5.1 Was there any economic impact of extreme natural disasters on the farm during the reference year?

- Yes
 No →7.5.3

7.5.2 Indicate the economic impact of extreme natural disasters on the farm during the reference year.

- Loss of revenue
 Loss due to disruption of production
 Other economic impacts

Loss in price Rs.

7.5.3 Was there any physical impact of extreme natural disasters on the farm during the reference year?

- Yes
 No →7.5.5

7.5.4 Indicate the physical impact of extreme natural disasters on the farm during the reference year.

- Area lost
 Grass crop lost
 Livestock lost
 Animal house (shelter) lost
 Biomass lost
 Building damages or lost
 Damage or loss of livestock / agricultural inputs
 Other physical lost

Loss in price Rs.

7.5.5 Do you know about climate change?

- Yes
 No →End

7.5.6 Identify the practices of the farm to adapt for climate change during the reference year.

(Multiple answer)

- Use of traditional agricultural heritage practices and knowledge
 Use of local varieties of animal
 Use of species of animal adapted to local conditions and stresses
 Use of new practices or technologies
 Other
 None of the above

END