



Agriculture Division

2006 Farm Environmental Management Survey

Livestock Module



CONFIDENTIAL when completed
Collected under the authority of the
Statistics Act, Revised Statutes of
Canada, 1985, Chapter S19.

For interviewer use only

Fully completed	005	1	
Partial	005	4	
Refusal	005	2	
No contact	005	3	
In operation	004	00	
Change of operator	004	12	
Out of business	004	13	
Out of scope	004	99	

TO THE RESPONDENT:

Objective of the survey:

Statistics Canada, with Agriculture and Agri-Food Canada, is conducting the Farm Environmental Management Survey in early 2007. This survey will gather information on management practices being used on the farm. The most accurate information about farming comes from producers like you.

The results of the survey will help guide research as well as inform environmental program and policy development in the department. Gathering accurate information on farm management practices will help researchers and policy makers focus efforts and resources on the areas and issues that need it most. Producers will ultimately benefit from such programs to help reduce environmental risk.

This questionnaire is to assist you in answering a telephone survey.

Complete this questionnaire and keep it by your telephone. An interviewer from Statistics Canada will telephone you after **February 11, 2007** for the information.

DO NOT MAIL this questionnaire. Only complete the sections applicable to your operation.

This is a voluntary survey conducted under Section 8 of the Statistics Act. Your cooperation is important to ensure that the information collected in this survey is as accurate as possible.

All information will be kept confidential under the Statistics Act.

Please refer to the calendar year **2006** when answering the questions.

La version française de ce questionnaire est disponible.

Instructions to respondents:

For all questions about the management practices related to the crop and livestock on your operation, please consider the following:

- Practices related to all livestock on your operation, regardless of ownership, including those that are boarded, custom fed or fed under contract and pastured for others.
- Practices related to all livestock owned by you and held on crown land, community pastures and grazing projects.
- All practices related to the land on your operation whether the land area is owned, rented or crop-shared **FROM OTHERS** in 2006.
- Do not report livestock owned by you but kept on a farm, ranch or feedlot operated by someone else.
- Do not report practices on the land rented **TO OTHERS** in 2006.

Review the information on the label. If any information is incorrect or missing, please make the necessary corrections in the boxes below.

FRM	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Farm Name (if applicable)	Area Code	
NA 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Surname or Family Name	Telephone	
	<input type="text"/>		
	Usual First Name and Initial		
ADR	<input type="text"/>	<input type="text"/>	<input type="text"/>
	R.R. Box No.	Number and Street Name	
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Postal Code	Post Office (name of city, town or village where mail is received)	
EML	<input type="text"/>	<input type="text"/>	<input type="text"/>
	E-mail Address (if applicable)	Area Code	
NA 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Partner's Name (if applicable)	Telephone	
NA 4	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Partner's Name (if applicable)	Area Code	
COR	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Corporation Name (if applicable)	Telephone	

2. In 2006, what types of livestock or poultry production did you have on your operation?
(Report all animals on this operation, regardless of ownership, including those that are boarded, custom-fed or fed under contract. Exclude animals owned but kept on another farm or ranch operated by someone else)

(Check all that apply)

- Dairy cattle and/or milk production**
(breeding bulls, cows, replacements, dairy heifers and dairy calves)
- Beef cattle including feedlot**
(bulls, cows, beef heifers, steers and beef calves)
- Pork production**
(boars, sows for breeding, bred gilts and all other pigs)
- Poultry and/or egg production**
(broilers, roasters, laying hens, chicks intended for laying, turkeys, ducks and geese)
- Other livestock or poultry production - specify:** _____
(exclude household pets) _____
- Crops only, no livestock or poultry production (Go to question 4.)**

3. Which type of livestock or poultry production contributed most to your gross farm receipts?

(Check one only)

-
-
-
-
-

FOR INFORMATION ONLY

Section I. Livestock Inventories and Buildings

4. In 2006, were there any livestock kept permanently outside of building on your operation?

Yes



No



(Go to question 6)

5. In 2006, how many and what type of livestock or poultry were kept permanently outside?

Cattle and calves

Calves, under 1 year old _____

Steers, 1 year and over _____

Heifers, 1 year and over _____

Cows _____

Bulls, 1 year and over _____

Other livestock or poultry
(bison, llamas, deer, elk,
etc., exclude wild animals)

specify: _____

6. In 2006, were there any buildings where livestock was housed on your operation?

Yes



No



(Go to question 12)

7. In 2006, how many livestock buildings were on your operation?
(Exclude calf hutches)

Number of buildings where livestock were housed: _____

FOR INFORMATION ONLY

8. In 2006, on average how many livestock or poultry were housed in each livestock building?

	Building 1	Building 2	Building 3	Building 4	Building 5
CATTLE AND CALVES:					
Calves, under 1 year old	_____	_____	_____	_____	_____
Steers, 1 year and over	_____	_____	_____	_____	_____
Heifers, 1 year and over	_____	_____	_____	_____	_____
Cows	_____	_____	_____	_____	_____
Bulls, 1 year and over	_____	_____	_____	_____	_____
PIGS:					
Boars	_____	_____	_____	_____	_____
Sows and gilts for breeding	_____	_____	_____	_____	_____
Nursing and weaner pigs	_____	_____	_____	_____	_____
Grower and finishing pigs	_____	_____	_____	_____	_____
POULTRY:					
Broilers, roasters and Cornish	_____	_____	_____	_____	_____
Pullets under 19 weeks, intended for laying	_____	_____	_____	_____	_____
Laying hens, 19 weeks and over	_____	_____	_____	_____	_____
Turkeys	_____	_____	_____	_____	_____
OTHER LIVESTOCK OR POULTRY: (<i>horses, ponies, mink, fox, goats, wild boar, geese, ducks, roosters, ostriches, emus, etc.</i>)					
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

FOR INFORMATION ONLY

9. In 2006, how was air quality controlled in each livestock building?

(Check all that apply)

	Building 1	Building 2	Building 3	Building 4	Building 5
Forced ventilation with filter on exhaust fans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Forced ventilation, no filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Passive/natural ventilation (side curtains, or vent panels)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Don't know	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. If forced ventilation was used (question 9), how was the ventilation rate controlled?

	Building 1	Building 2	Building 3	Building 4	Building 5
With fans switched automatically (with thermostat/computer)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
With fans switched manually	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, specify: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Don't know	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not applicable, no forced ventilation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

11. If forced ventilation with filter on exhaust fan was used (question 9), what is the frequency of filter change?

	Building 1	Building 2	Building 3	Building 4	Building 5
Every month	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Every 2 to 5 months	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Every 6 to 11 months	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Every year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Less frequently than every year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Don't know	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not applicable, no forced ventilation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Section II A - Liquid and/or Semi-solid Manure

12. In 2006, were there any liquid and/or semi-solid manure storage systems used on your operation?
(semi-solid or "pumpable" manure)

Yes

No (Go to question 24)

13. In 2006, how many liquid and/or semi-solid manure storage systems were on your operation?
(Include earthen manure storage, lagoon, open or covered tank, tank or pit below slatted floor, etc.)

number of storage systems

14. What was the type of each liquid and/or semi-solid manure storage system?

	Storage 1	Storage 2	Storage 3	Storage 4	Storage 5

15. What was the size (surface area or diameter or volume) of each liquid and/or semi-solid manure storage system?

SURFACE

OR

OR

DIAMETER

OR

VOLUME

	Storage 1	Storage 2	Storage 3	Storage 4	Storage 5
	<input type="radio"/> Square Feet <input type="radio"/> Square Metres	<input type="radio"/> Square Feet <input type="radio"/> Square Metres	<input type="radio"/> Square Feet <input type="radio"/> Square Metres	<input type="radio"/> Square Feet <input type="radio"/> Square Metres	<input type="radio"/> Square Feet <input type="radio"/> Square Metres
	Length <input type="text"/> X Width <input type="text"/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	Length <input type="text"/> X Width <input type="text"/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	Length <input type="text"/> X Width <input type="text"/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	Length <input type="text"/> X Width <input type="text"/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	Length <input type="text"/> X Width <input type="text"/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards
	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards
	<input type="radio"/> Imperial gallons <input type="radio"/> Litres <input type="radio"/> Other, specify: _____	<input type="radio"/> Imperial gallons <input type="radio"/> Litres <input type="radio"/> Other, specify: _____	<input type="radio"/> Imperial gallons <input type="radio"/> Litres <input type="radio"/> Other, specify: _____	<input type="radio"/> Imperial gallons <input type="radio"/> Litres <input type="radio"/> Other, specify: _____	<input type="radio"/> Imperial gallons <input type="radio"/> Litres <input type="radio"/> Other, specify: _____

16. What was the depth (deepest part) of each liquid and/or semi-solid manure storage system?

	Storage 1	Storage 2	Storage 3	Storage 4	Storage 5
	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards

	Storage 1	Storage 2	Storage 3	Storage 4	Storage 5
17. What was the storage capacity of each liquid and/or semi-solid manure storage system?	 <input type="radio"/> Days <input type="radio"/> Months	 <input type="radio"/> Days <input type="radio"/> Months	 <input type="radio"/> Days <input type="radio"/> Months	 <input type="radio"/> Days <input type="radio"/> Months	 <input type="radio"/> Days <input type="radio"/> Months
18. Was there a cover over the storage system? <i>(Include crust, straw, lid, tarp)</i>	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
If yes, specify covering material	 	 	 	 	
19. What was the material used for the floor or floor lining of the liquid and/or semi-solid storage system?	 <input type="radio"/> Don't know	 <input type="radio"/> Don't know	 <input type="radio"/> Don't know	 <input type="radio"/> Don't know	 <input type="radio"/> Don't know
20. What was the material used for the walls of the storage system?	 <input type="radio"/> Don't know	 <input type="radio"/> Don't know	 <input type="radio"/> Don't know	 <input type="radio"/> Don't know	 <input type="radio"/> Don't know
21. For each liquid and/or semi-solid manure storage system, what was the <u>normal distance</u> to the nearest water source?					
Normal distance to <u>nearest well</u>					
	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable
Normal distance to <u>nearest surface water</u> <i>(Surface water includes dugout, reservoir, pond, stream, creek, river, lake, wetland, ditches, marsh or slough)</i>					
	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable

22. Which of the following treatments were used for the liquid and/or semi-solid manure stored on your operation in 2006?

Was liquid and/or semi-solid stored manure...?

(Check all that apply)

- aerated or agitated
- filtered through a marsh (constructed wetland)
- digested in an anaerobic system
- mixed with additives to modify odour, pH or nutrient retention
- mixed or turned to accelerate composting
- processed to separate liquid from solid
- dried
- Other, specify: _____
- None

23. What became of the liquid and/or semi-solid manure that was stored on your operation in 2006?

Was liquid and/or semi-solid manure...?

(Check all that apply)

- spread on the land you operated (by you, an employee or someone else)
- sold or given to others
- removed by contractor
- Other, specify: (C2306) _____
- None

Section II B - Solid Manure

24. In 2006, did you store solid manure on your agricultural operation?

(Include solid manure piles on the ground or packs in barns, pens, corrals, feeding sites)

Yes

(Go to question 25)

No

(Go to question 35)

	Pile(s) on the ground near livestock building(s)	Pile(s) on the ground near land application site(s)	Manure packs in barns, pens, corrals, feeding sites
25. Were any of the following types of solid manure storage system used in 2006?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
26. For each solid manure storage system, was manure stored on an impermeable pad?	<input type="radio"/> Yes for all <input type="radio"/> Yes for some <input type="radio"/> No <input type="radio"/> Don't know	<input type="radio"/> Yes for all <input type="radio"/> Yes for some <input type="radio"/> No <input type="radio"/> Don't know	<input type="radio"/> Yes for all <input type="radio"/> Yes for some <input type="radio"/> No <input type="radio"/> Don't know
27. For each solid manure storage system, does the system have run-off containment?	<input type="radio"/> Yes for all <input type="radio"/> Yes for some <input type="radio"/> No <input type="radio"/> Don't know	<input type="radio"/> Yes for all <input type="radio"/> Yes for some <input type="radio"/> No <input type="radio"/> Don't know	<input type="radio"/> Yes for all <input type="radio"/> Yes for some <input type="radio"/> No <input type="radio"/> Don't know
28. For each solid manure storage system, was there a roof or cover?	<input type="radio"/> Yes for all <input type="radio"/> Yes for some <input type="radio"/> No <input type="radio"/> Don't know	<input type="radio"/> Yes for all <input type="radio"/> Yes for some <input type="radio"/> No <input type="radio"/> Don't know	<input type="radio"/> Yes for all <input type="radio"/> Yes for some <input type="radio"/> No <input type="radio"/> Don't know
29. If yes, what was the covering material?	_____	_____	_____
30. How long is solid manure collected over the winter usually stored? (December to March)	<input type="radio"/> Less than 1 month <input type="radio"/> 1 month to less than 6 months <input type="radio"/> 6 months to less than 12 months <input type="radio"/> 12 months and longer <input type="radio"/> Not stored over winter	<input type="radio"/> Less than 1 month <input type="radio"/> 1 month to less than 6 months <input type="radio"/> 6 months to less than 12 months <input type="radio"/> 12 months and longer <input type="radio"/> Not stored over winter	<input type="radio"/> Less than 1 month <input type="radio"/> 1 month to less than 6 months <input type="radio"/> 6 months to less than 12 months <input type="radio"/> 12 months and longer <input type="radio"/> Not stored over winter
31. How long is solid manure collected over spring to fall usually stored? (April to November)	<input type="radio"/> Less than 1 month <input type="radio"/> 1 month to less than 6 months <input type="radio"/> 6 months to less than 12 months <input type="radio"/> 12 months and longer <input type="radio"/> Not stored over spring to fall	<input type="radio"/> Less than 1 month <input type="radio"/> 1 month to less than 6 months <input type="radio"/> 6 months to less than 12 months <input type="radio"/> 12 months and longer <input type="radio"/> Not stored over spring to fall	<input type="radio"/> Less than 1 month <input type="radio"/> 1 month to less than 6 months <input type="radio"/> 6 months to less than 12 months <input type="radio"/> 12 months and longer <input type="radio"/> Not stored over spring to fall

32. What is the distance that is normally maintained or the normal distance of the solid manure stored to the nearest water source?

	<u>MINIMUM DISTANCE MAINTAINED</u> from pile(s) on the ground near livestock building(s)	<u>MINIMUM DISTANCE MAINTAINED</u> from pile (s) on the ground near land application site(s)	<u>NORMAL DISTANCE</u> from manure packs in barns, pens, corrals, feeding sites
Distance to <u>nearest well</u> <hr/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<hr/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<hr/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<hr/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable
Distance to <u>nearest surface water</u> <i>(Surface water includes dugout, reservoir, pond, stream, creek, river, lake, wetland, ditches, marsh or slough)</i>	<hr/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<hr/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable	<hr/> <input type="radio"/> Feet <input type="radio"/> Metres <input type="radio"/> Yards <input type="radio"/> Not applicable

33. Which of the following treatments were used for the solid manure stored on your operation in 2006?

Was solid manure...?

(Check all that apply)

- mixed with additives to modify odour, pH or nutrient retention
- mixed or turned to accelerate composting
- Other, specify: _____
- None

34. What became of the solid manure that was stored on your operation in 2006?

Was solid manure...?

(Check all that apply)

- spread on the land you operated (by you, an employee or someone else)
- sold or given to others
- removed by contractor
- Other, specify: _____
- None

Section III - Grazing Livestock Management

35. In 2006, were there any grazing livestock on your operation?

Yes
↓

No
↓
(Go to question 46)

36. How many of each type of livestock were grazed during the 2006 grazing season on your operation?

		Number
Cattle and calves	Calves, under 1 year old	_____
	Steers, 1 year and over	_____
	Heifers, 1 year and over	_____
	Cows	_____
	Bulls, 1 year and over	_____
Other livestock or poultry	specify: _____	_____

37. Do you practice rotational grazing (i.e. regularly moving livestock to different pastures or grazing paddocks throughout the grazing season)? *(Only consider actively managed rotational grazing)*

Yes

No

For the next questions, consider the following two types of pasture:	Tame or seeded pasture	Natural land for pasture
38. In 2006, what area of each type of pasture was used for grazing on your operation? <i>(Specify the unit of measure used)</i>	<input type="text"/> <input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents	<input type="text"/> <input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
39. In 2006, on average, for how many days was each type of pasture grazed on your operation? <i>(If different for different fields, give the average)</i>	<input type="text"/> <input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents	<input type="text"/> <input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
40. What was the grass or forage height on each type of pasture when livestock were finished grazing the area in 2006? <i>(Specify the unit of measure used)</i>	<input type="text"/> <input type="radio"/> Inches <input type="radio"/> Centimetres <input type="radio"/> Don't know	<input type="text"/> <input type="radio"/> Inches <input type="radio"/> Centimetres <input type="radio"/> Don't know

41. If tame or seeded pasture areas were on your operation, at what time interval were they re-seeded?

(If time interval varies for different fields, give the average)

- Every 1 to 2 years
- Every 3 to 5 years
- Every 6 to 10 years
- Every 11 to 15 years
- Every 16 years or more
- Never re-seeded
- Don't know

42. In 2006, were any of the following practices used to extend the grazing season?

(Check all that apply)

- Using forages that grow in early spring
- Using forages that grow in late fall
- Supplementing grazing areas with additional hay
- Grazing swathed or cut/windrowed crops during winter
- Grazing standing vegetation or annual crop residues during winter
- Other, specify: _____
- None
- Don't know

43. In 2006, were any of the following practices used when feeding livestock in an open feeding area?

(Exclude corrals and feedlots)

(Check all that apply)

- Livestock are not fed in an open feeding area
- Move feeding sites to different locations
- Move watering sites to different locations
- Move sheltering / bedding sites to different locations
- Livestock are usually in the same part of the open feeding area
- Other, specify: _____
- None
- Don't know

44. In 2006, were any pastures or grazing paddocks adjacent to surface water on your operation?

(Surface water includes dugout, reservoir, pond, stream, creek, river, lake, wetland, ditches, marsh or slough)

Yes



No



(Go to question 46)

45. In 2006, what type of access did grazing livestock have to surface water bodies?

(Surface water includes dugout, reservoir, pond, stream, creek, river, lake, wetland, ditches, marsh or slough)

- Unlimited year round access
- Unlimited access for the entire grazing season
- Unlimited access for the winter feeding season
- Limited access **—————>**
- No access **—————>**

If limited or no access, which of the following practices was used to restrict access?
(Check all that apply)

- Fencing shoreline
- Remote or offsite watering system to a trough
- Access ramps for direct watering
- Stream crossings
- Limited or controlled grazing in riparian areas or adjacent to surface water
- Other, specify: _____

Section IV - Wildlife Damage

46. In the last 5 years, was there any damage or injury to the livestock on your operation by any of the following wildlife groups?

(Check all that apply)

- Bears
- Raccoons
- Birds
- Other predators (foxes, wolves, lynxes, coyotes, etc.)
- Other, specify: _____
- No damage caused by wildlife on my operation

(Go to question 48)

47. In the last 5 years, how many livestock or poultry were injured or killed by wildlife on your operation?

	Number <u>injured</u>	Number <u>killed</u>
Dairy Cattle	_____	_____
Beef Cattle	_____	_____
Hogs	_____	_____
Poultry	_____	_____
Other, specify: _____	_____	_____
_____	_____	_____

48. In the last 5 years, were any of the following practices used to reduce the impact of wildlife damage or injury to the livestock on your operation?

(Check all that apply)

- Fencing to protect stored feed and livestock
- Scaring devices or repellent systems
- Shooting or trapping by yourself or others
- Night penning near barn
- Guardian animals
- Border cropping
- Netting
- Other, specify: _____
- No practices used specifically to reduce the impact of wildlife damage

49. In the last 5 years, was there any damage to BUILDINGS/EQUIPMENT on your operation caused by wildlife?

Yes
↓

No
↓
(Go to question 51)

50. If yes, what was the damage?

Specify: _____

51. In the last 5 years, did your operation receive any payments for the following purposes?

(Check all that apply)

- Financial compensation for wildlife damage
- Financial compensation for conservation of wildlife habitats
- Payments for the purchase of land or for easement by wildlife conservation organizations
- Payments for land use/management agreement
- None of the above

Section V - Land and Water Management Practices

52. In 2006, were any of the following practices used on the land you operated?

If yes, specify the area for each practice used.

Did you use... (Check all that apply)	Area	Unit of measure
<input type="checkbox"/> cover or companion crops (crop seeded within an existing row between solid seeded crop, or intercropped)	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
<input type="checkbox"/> winter cover or green manure crops seeded alone after previous crop harvest	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
<input type="checkbox"/> strip cropping	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
<input type="checkbox"/> contour or across the slope cropping	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
<input type="checkbox"/> terracing (large soil ridges constructed on the contour or across the slope)	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
<input type="checkbox"/> permanent perennial forages <u>on erodible land</u>	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
<input type="checkbox"/> straw mulching (spread straw <u>on erodible land</u>)	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
<input type="checkbox"/> farmstead shelterbelts/windbreaks	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
<input type="checkbox"/> field shelterbelts (trees, shrubs)	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
<input type="checkbox"/> land with surface or subsurface drainage (e.g. constructed surface water channels or tile drainage)	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents
<input type="checkbox"/> Other, specify: _____	_____	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpents

The following questions are about land use changes.

Woodlands include woodlots, sugarbush, tree windbreaks, bushes, shelterbelts.

	Area	Unit de mesure
53. In 2006, what was the total woodland area on your operation?	<input type="text"/>	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpens
54. Over the last five years, how much land area was changed FROM woodland TO pasture or cultivated cropland?	<input type="text"/>	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpens
55. Over the last five years, how much land area was changed FROM pasture or cultivated cropland TO woodland?	<input type="text"/>	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpens
56. In 2006, how much land area was changed FROM cultivated cropland TO pasture?	<input type="text"/>	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpens
57. In 2006, how much land area was changed FROM pasture (tame, seeded and natural) TO cultivated cropland?	<input type="text"/>	<input type="radio"/> Acres <input type="radio"/> Hectares <input type="radio"/> Arpens

Wetlands

Different types of wetlands may be distinguished by the amount of time they normally contain surface water and by the different plant communities they harbour. Temporary wetlands usually contain water only for a short time in the spring or after heavy precipitation.

Seasonal wetlands normally have water present until mid summer or early fall, and during most years. Examples include ponds, sloughs, potholes, seasonally flooded meadows, marshes and treed wet swamps.

Permanent wetlands are flooded year round except for extreme drought periods.

Riparian buffer area includes both permanent planted or natural vegetation adjacent to a seasonal or permanent wetland or waterway, extending upslope from the normal shoreline.

Setback distance is the distance between the normal shoreline of a seasonal or permanent wetland or waterway, extending upslope to the edge of manure, fertilizer or pesticide applications.

58. Were there any seasonal wetlands on or adjacent to the land you operated in 2006?

Yes

No

Don't know

(Go to question 65)

(Go to question 65)

59. If yes, what was the total area of the seasonal wetlands?

Acres

Hectares

Arpens

60. Did you maintain a riparian buffer area around the seasonal wetlands?

Yes
↓

No
↓
(Go to question 62)

61. If yes, how wide was it? (If it varied for different wetlands, give the average width)

Feet

Metres

Yards

62. Did you maintain a setback distance around the seasonal wetlands?

Yes
↓

No
↓
(Go to question 64)

63. If yes, how wide was it? (If it varied for different wetlands, give the average width)

Feet

Metres

Yards

64. Did you stabilize shorelines or banks to prevent erosion?

Yes

No

65. Were there any permanent wetlands on or adjacent to the land you operated in 2006?

Yes
↓

No
↓
(Go to question 72)

Don't know
↓
(Go to question 72)

66. If yes, what was the total area of the permanent wetlands?

Acres

Hectares

Arents

67. Did you maintain a riparian buffer area around the permanent wetlands?

Yes
↓

No
↓
(Go to question 69)

68. If yes, how wide was it? (If it varied for different wetlands, give the average width)

Feet

Metres

Yards

69. Did you maintain a setback distance around the permanent wetlands?

Yes
↓

No
↓
(Go to question 71)

70. If yes, how wide was it? (If it varied for different wetlands, give the average width)

_____ Feet Metres Yards

71. Did you stabilize shorelines or banks to prevent erosion?

Yes

No

Waterways

Waterways include grassed waterways, coulees, treed waterways, ditches, creeks, streams.

Riparian buffer area includes permanent natural or planted vegetation adjacent to surface water.

Setback distance/separation is distance between surface water and manure, fertilizer or pesticides applications.

72. Were there any waterways on or adjacent to the land you operated in 2007?

Yes
↓

No
↓
(Go to question 79)

Don't know
↓
(Go to question 79)

73. If yes, what was the total length of the waterway?

_____ Feet Metres Yards Miles Kilometres

74. Did you maintain a riparian buffer area around the waterways?

Yes
↓

No
↓
(Go to question 76)

75. If yes, how wide was it? (If it varied for different waterways, give the average width)

_____ Feet Metres Yards

76. Did you maintain a setback distance from the waterways?

Yes
↓

No
↓
(Go to question 78)

77. If yes, how wide was it? (If it varied for different waterways, give the average width)

_____ Feet Metres Yards

78. Did you stabilize shorelines or banks to prevent erosion?

Yes

No

Domestic Water

79. In 2006, were there any active water wells on the land you operated?

Yes
↓

No
↓
(Go to question 81)

Don't know
↓
(Go to question 81)

80. If yes, how often is the water tested to meet quality standards for human and/or livestock consumption?

(If different for different wells, give the average)

- At least once a year
- Every 2 years
- Every 3 to 5 years
- Every 6 years or more
- Not tested/not a concern
- Never
- Don't know

81. In 2006, were there any abandoned water wells on the land you operated?

Yes
↓

No
↓
(Go to question 83)

Don't know
↓
(Go to question 83)

82. If yes, have these abandoned wells been decommissioned?

(wells filled in, capped)

- All decommissioned
- Some decommissioned
- None
- Don't know

Section VI - Waste Management and Hazardous Materials

83. In 2006, how were the following materials stored on your farm operation?

(Check all that apply)

	Commercial Fertilizers	Pesticides <i>(insecticides, herbicides, fungicides)</i>	Petroleum Products	
			Fuel	Oil and Grease
Building with a concrete floor or pad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Building without a concrete floor or pad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Above ground sealed tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not stored on the farm operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

84. Did the storage site have a containment system to handle spills?

	Commercial Fertilizers	Pesticides <i>(insecticides, herbicides, fungicides)</i>	Petroleum Products	
			Fuel	Oil and Grease
	<input type="radio"/> Yes	<input type="radio"/> Yes	<input type="radio"/> Yes	<input type="radio"/> Yes
	<input type="radio"/> No	<input type="radio"/> No	<input type="radio"/> No	<input type="radio"/> No
	<input type="radio"/> N/A	<input type="radio"/> N/A	<input type="radio"/> N/A	<input type="radio"/> N/A

85. In 2006, how were these products (including their containers) disposed of? Were they disposed of ...

(Check all that apply)

	Commercial Fertilizers	Pesticides <i>(insecticides, herbicides, fungicides)</i>	Petroleum Products <i>(oil, grease)</i>	Other Hazardous Materials
				<i>(batteries, paint)</i>
... on farm (incineration, buried, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
... with domestic garbage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
... in a municipal recycling program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
... by returning to supplier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
... using waste disposal sites for hazardous waste or dangerous goods	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, specify : _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No disposal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Wastewater includes water to wash produce, milkhouse, pens or facilities, silage leakage, run-off water from livestock pens, etc.

**86. In 2006, how was wastewater managed on your operation?
Was it...**

(Check all that apply)

- discharged to a constructed retention pond or holding pond
- discharged to a septic or sewer system
- discharged into a filtration marsh or wetland
- included in the liquid manure system
- collected in holding or storage tank
- Other, specify: _____
- Not actively managed/wastewater removed through natural drainage

87. In 2006, how many livestock or poultry were disposed of using each of the following method?

	Dairy cattle	Beef cattle	Hogs	Poultry
On farm:				
Buried	_____	_____	_____	_____
Incinerated	_____	_____	_____	_____
Composted	_____	_____	_____	_____
Other, specify: _____	_____	_____	_____	_____
Off farm collection service (e.g. rendering enterprise)	_____	_____	_____	_____

	Other livestock or poultry specify:	Number
On farm:		
Buried	_____	_____
Incinerated	_____	_____
Composted	_____	_____
Other, specify: _____	_____	_____
Off farm collection service (e.g. rendering enterprise)	_____	_____

Section VII - Environmental Farm Plan

88. Does your farm operation have a formal, written Environmental Farm Plan (EFP) as part of a federal, provincial or industry program?

A formal, written farm environmental farm plan is an overall assessment of environmental issues or concerns related to your operation, and can include individual and/or group planning processes.

Yes, plan is developed



Yes, plan is in development or being reviewed



No



(Go to question 93)

89. When was this Environmental Farm Plan (EFP) developed or last updated?

- Less than 1 year ago
- From 1 to 3 years ago
- From 3 to 5 years ago
- More than 5 years ago

90. To what extent were the Beneficial Management Practices (BMPs) identified in the action plan of your EFP implemented on your operation?

- Practices fully implemented
- Practices partially implemented
- Practices not implemented

91. Was any technical assistance received from any of the following groups to help implement the Beneficial Management Practices (BMPs) identified in the action plan of your EFP?

(Check all that apply)

- Did not receive assistance
- Government agency
- Industry (input supplier, processors, etc.)
- Environmental non-governmental organizations
- Producer association
- College/University
- EFP planning advisor / facilitator
- Agrologist
- Other, specify : _____

92. Was any financial assistance (from any source) received to offset costs for implementation of Beneficial Management Practices (BMPs) identified in the action plan of your EFP?

(Exclude drought payments)

Yes

No

93. In 2006, were global positioning system (GPS) equipment or products (digital maps) used on your operation?

Yes

No

Don't know



(Go to question 95)

(Go to question 95)

94. If yes, were they used ...

(Check all that apply)

- to collect information for soil and crop management
- to collect information for water management
- as a tracking or guidance system on tractor to eliminate overlaps and misses in field operations
- to target or vary fertilizer or manure application rate
- to target or vary pesticide application rates
- Other, specify: _____

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