



# 2005 Livestock Farm Practices Survey

## Broiler and Roaster Producers



CONFIDENTIAL  
when completed

Collected under the  
authority of the  
Statistics Act,  
Revised Statutes of  
Canada, 1985,  
Chapter S-19.

To correct or make changes to this label → See below

Ce questionnaire est disponible en français.

### 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:

To improve overall air quality in Canada and worldwide, agriculture like other industries is asked to quantify emissions of ammonia into the atmosphere. The results of the survey will place Canada among other industrialized countries who have agreed to co-operate to improve air quality around the globe. Because pollutants travel long distances crossing many boundaries, international co-operation is essential for long-term air quality. The information obtained from the survey will guide researchers to improve efficiency of Nitrogen use on farms.

Your farm was selected at random for this survey from a list of broiler and roaster producers. While participation in this survey is voluntary, your cooperation is important to ensure that the information collected in this survey is as accurate and as comprehensive as possible.

Statistics Canada is prohibited by law from publishing any statistics which would divulge information obtained from this survey that relates to any identifiable business, institution or individual without their knowledge and consent. The data reported on this questionnaire will be treated in confidence, used for statistical purposes and published in aggregate form only.

This questionnaire on commercial broiler and roaster operations deals with feed protein, barn types, manure handling and spreading of manure. The person most knowledgeable about these items should complete the questionnaire.

**Please refer to the 2005 calendar year when answering questions unless specified otherwise.**

**Change or correction to the address label (if required)**

Are there any changes required to the address label?

Corporation name <sup>11</sup>											Area code <sup>14</sup>			
Operator name <sup>12</sup>												Telephone <sup>15</sup>		
Contact name <sup>13</sup>												Telephone <sup>16</sup>		
R.R. <sup>17</sup>		P.O. Box <sup>18</sup>				Number and street name <sup>19</sup>								
Postal code <sup>20</sup>												Postal code <sup>21</sup>		

FOR INFORMATION ONLY

**For questions about chickens raised for meat production include the following:**

- All broilers, roasters and stewing hens (e.g., Cornish hens) on your operation, regardless of ownership, including those that are custom fed or fed under contract for others.

**For questions about chickens raised for meat production exclude the following:**

- Do not report chickens which are owned by you but kept on a farm owned by someone else.

### Section 1 – Feeding and housing practices

1. In 2005, what was the average number of broilers and roasters on your farm operation at any one time (*average number per cycle*)?

Birds<sub>1(K00101)</sub>

2. In 2005, how many production cycles did you have (*number of times the birds were replaced*)? Give to the nearest half-cycle.

·  Cycles<sub>1(K00201)</sub>

3. In 2005, what was the average number of days between production cycles (*when the barns were empty*)?

days<sub>1(K00301)</sub>

<p>4. In 2005, how many broilers and roasters did your operation sell to market (include stewing hens)?</p> <p><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/> Birds<sub>1(K00401)</sub></p> <p>→ Answer questions 5 to 7</p>	<p>5. How many were less than 4 lb (less than 1.8 kg)?</p> <p><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/> Birds<sub>1(K00501)</sub></p> <p>6. How many were between 4 and 5 lb (1.8 kg to 2.3 kg)?</p> <p><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/> Birds<sub>1(K00601)</sub></p> <p>7. How many were larger than 5 lb (&gt; 2.3 kg)?</p> <p><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/> Birds<sub>1(K00701)</sub></p>
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8. How many separate building(s) did you use to house your broilers?

Building(s)<sub>1(K00801)</sub>

9. In 2005, at the start and end of each cycle, what was the average temperature in the production part of the broiler and roaster building? *If there is more than one broiler and roaster building answer for the largest production building.*

*What was the average temperature at the start of each cycle...?*

Start of each cycle .....  °C<sub>1(K00901)</sub> or .....  °F<sub>2(K00902)</sub>

*What was the average temperature at the end of each cycle...?*

End of each cycle .....  °C<sub>3(K00903)</sub> or .....  °F<sub>4(K00904)</sub>

10. Did you have filters on your vents or vent fans to control dust emissions in your broiler and roaster building(s)?

Yes.....  <sub>1(K01001)</sub>

No .....  <sub>2(K01002)</sub>

11. What type of ventilation system did you have in the broiler and roaster building(s)?

Check all that apply.

- Fans switched on automatically with computer . . . . . 1(K01101)
- Fans switched on automatically with thermostat . . . . . 2(K01102)
- Fans switched on manually . . . . . 3(K01103)
- Passive ventilation (side curtains, free air or vent panels) . . . . . 4(K01104)
- Other, specify: \_\_\_\_\_ 5(K01105)

<p>12. In 2005, what proportion of the feed used by your broilers and roasters came from commercial feed suppliers?</p> <p>More than 75% . . . . . <input type="checkbox"/>1(K01201) → Answer question 13</p> <p>25% to 75% . . . . . <input type="checkbox"/>2(K01202) → Answer question 13</p> <p>Less than 25% . . . . . <input type="checkbox"/>3(K01203) ↓ Go to question 14</p> <p>None . . . . . <input type="checkbox"/>4(K01204) ↓ Go to question 14</p>	<p>13. What commercial feed products did you obtain?</p> <p>Check all that apply.</p> <p>Complete feed . . . . . <input type="checkbox"/>1(K01301)</p> <p>Protein supplements . . . . . <input type="checkbox"/>2(K01302)</p> <p>Amino acids . . . . . <input type="checkbox"/>3(K01303)</p> <p>Vitamin/mineral premixes . . . . . <input type="checkbox"/>4(K01304)</p> <p>Other, specify: _____ 5(K01305)</p> <p>Don't know <input type="checkbox"/>6(K01306)</p>
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FOR INFORMATION ONLY

14. Does the percentage of crude protein content of your broilers and roasters diet change for each stage of production?

Yes ..  <sub>1(K01401)</sub> → Answer questions 16 and 17

No ....  <sub>2(K01402)</sub> ↓ Go to question 15

15. What was the percentage of crude protein content of the feed used for your broilers?

% crude protein <sub>1(K01501)</sub>

Don't know  <sub>2(K01502)</sub>

↓ Go to question 18

16. In 2005, what was the percentage (%) of crude protein content of the feed used for your broilers and roasters during each stage of production?

**% crude protein**

First stage of production:.....   <sub>1(K01601)</sub>

Second stage of production:..   <sub>2(K01602)</sub>

Third stage of production:.....   <sub>3(K01603)</sub>

Fourth stage of production: ...   <sub>4(K01604)</sub>

Fifth stage of production:.....   <sub>5(K01605)</sub>

Sixth stage of production:.....   <sub>6(K01606)</sub>

Other, *specify*:.....   <sub>7(K01607)</sub> <sub>8(K01608)</sub>

Don't know  <sub>9(K01609)</sub>

17. How many days did your broilers and roasters stay in each stage of production?

**Days**

First stage of production:.....   <sub>1(K01701)</sub>

Second stage of production:..   <sub>2(K01702)</sub>

Third stage of production:.....   <sub>3(K01703)</sub>

Fourth stage of production: ...   <sub>4(K01704)</sub>

Fifth stage of production:.....   <sub>5(K01705)</sub>

Sixth stage of production:.....   <sub>6(K01706)</sub>

Other, *specify*:.....   <sub>7(K01707)</sub> <sub>8(K01708)</sub>

Don't know  <sub>9(K01709)</sub>

18. In 2005, did you mix feed, other than minerals, for broilers and roasters on your operation?

Yes .....  <sub>1(K01801)</sub>

→ Answer questions 19 to 22

No .....  <sub>2(K01802)</sub> ↓ Go to question 23

19. What ingredients did you mix? (*Do not include commercial vitamin, mineral premixes or protein supplements*).  
*Check all that apply.*

Corn .....  <sub>1(K01901)</sub>

Cereals (*barley, wheat, rye, etc.*) ... .....  <sub>2(K01902)</sub>

Soybean meal .....  <sub>3(K01903)</sub>

Soybean grain .....  <sub>4(K01904)</sub>

Canola meal .....  <sub>5(K01905)</sub>

Other plant proteins (e.g., peas) ... .....  <sub>6(K01906)</sub>

Animal proteins (*e.g. whey or skim milk powder*) .....  <sub>7(K01907)</sub>

Other, *specify*: \_\_\_\_\_ <sub>8(K01908)</sub>

20. Which best describes how you formulated your broiler and roaster diet: ...?

Based on farm experience and records .....  <sub>1(K02001)</sub>

Following tag instructions .....  <sub>2(K02002)</sub>

Following advice from nutritionist or veterinarian .....  <sub>3(K02003)</sub>

Other, *specify*: \_\_\_\_\_ <sub>4(K02004)</sub>

21. How often were these ingredients analysed for protein content?

Never .....  <sub>1(K02101)</sub>

On occasion, but not in 2005 .....  <sub>2(K02102)</sub>

One to four times in 2005 .....  <sub>3(K02103)</sub>

Five times or more in 2005 .....  <sub>4(K02104)</sub>

22. If the finished feed was analysed in 2005, was the crude protein content: ...?

Usually under your target protein content ... .....  <sub>1(K02201)</sub>

Usually meeting your target protein content .....  <sub>2(K02202)</sub>

Usually over your target protein content .....  <sub>3(K02203)</sub>

23. For your broilers in 2005, what was the feed conversion efficiency for your last completed cycle?  
(*The quantity of feed needed to produce 1 kg or 1 lb of chicken, live weight*).

	.		
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Feed conversion efficiency <sub>1(K02301)</sub>

Or

Don't know  <sub>2(K02302)</sub>

24. In 2005, did you use **litter** in your broiler and roaster building(s)?

Yes .....  <sub>1(K02401)</sub> → Answer questions 25 to 27

No .....  <sub>2(K02402)</sub> ↓ Go to question 28

25. What type of litter did you use for your broilers?  
*Check all that apply.*

Straw or other crop residue ..  <sub>1(K02501)</sub>

Sawdust, wood chips or shavings .....  <sub>2(K02502)</sub>

Paper crumb or other forest product..  <sub>3(K02503)</sub>

Other, *specify:* \_\_\_\_\_ <sub>4(K02504)</sub>

26. How often did you add fresh litter for your broilers? Specify the usual number of days between one addition and the next.

Days <sub>1(K02601)</sub>

27. Approximately how much bedding do you use per year for all your broilers and roasters?

Cubic yards/metres <sub>1(K02701)</sub>

--Or--

Number of large bales <sub>2(K02702)</sub>

--Or--

Number of small bales <sub>3(K02703)</sub>

--Or--

Tonnes (metric) <sub>4(K02704)</sub>

--Or--

Tons (imperial) <sub>5(K02705)</sub>

--Or--

<sub>6(K02706)</sub> Other units

*Specify units:* \_\_\_\_\_ <sub>7(K02707)</sub>

Don't know  <sub>8(K02708)</sub>

28. What was the number of days, on average, between manure cleanings in your broiler and roaster buildings?

Days <sub>1(K02801)</sub>

29. How many times per production cycle did you clean manure from your broiler and roaster building(s)?

Partially cleaned several times every production cycle and fully cleaned once at the end...  <sub>1(K02901)</sub>

Fully cleaned once every production cycle .....  <sub>2(K02902)</sub>

Fully cleaned less often than once every production cycle .....  <sub>3(K02903)</sub>

Fully cleaned several times every production cycle .....  <sub>4(K02904)</sub>

30. In 2005, what was the percentage of all the manure removed from your broiler and roaster building(s) during the following months? *What percentage was removed in...?*

April to May.....	<input type="text"/> <input type="text"/> <input type="text"/>	<sub>1(K03001)</sub>
June to August .....	<input type="text"/> <input type="text"/> <input type="text"/>	<sub>2(K03002)</sub>
September to November .....	<input type="text"/> <input type="text"/> <input type="text"/>	<sub>3(K03003)</sub>
December to March .....	<input type="text"/> <input type="text"/> <input type="text"/>	<sub>4(K03004)</sub>

**Total must be 100%**

-----Or-----

Manure is removed after each cycle .....  <sub>5(K03005)</sub>

## Section 2 – Solid Manure Handling and Storage

**\*Please refer to a normal year\***

31. Do you store solid manure from your broiler and roaster operation?

Yes..... <sub>1(K03101)</sub> ↓ Please complete Section 2

No ..... <sub>2(K03102)</sub> → Go to Section 3 (page 8)

32. How long do you usually store solid manure collected over **winter**? (December to March)

*Is it stored ...?*

Less than 1 month ..... <sub>1(K03201)</sub>

From 1 to less than 6 months .. <sub>2(K03202)</sub>

From 6 to less than 12 months ..... <sub>3(K03203)</sub>

12 months or longer..... <sub>4(K03204)</sub>

Not stored over winter. .... <sub>5(K03205)</sub>

33. How long do you usually store solid manure collected from **spring to fall**? (April to November)

*Is it stored ...?*

Less than 1 month ..... <sub>1(K03301)</sub>

From 1 to less than 6 months .. <sub>2(K03302)</sub>

From 6 to less than 12 months ..... <sub>3(K03303)</sub>

12 months or longer..... <sub>4(K03304)</sub>

Not stored over spring to fall..... <sub>5(K03305)</sub>

34. How do you usually store solid manure? *Is it ...?*

Uncovered outdoor piles or bunkers..... <sub>1(K03401)</sub>

Piles or bunkers covered with tarp or straw..... <sub>2(K03402)</sub>

Piles or bunkers under a roof .. <sub>3(K03403)</sub>

Other storage, *specify*: \_\_\_\_\_ <sub>4(K03404)</sub>

<p>35. Do you put any <u>additives</u> into the <u>manure</u>, to modify odour, pH or nutrient retention? Exclude litter.</p> <p>Yes ..... <input type="checkbox"/><sub>1(K03501)</sub> → Answer question 36</p> <p>No ..... <input type="checkbox"/><sub>2(K03502)</sub> ↓ Go to question 37</p>	<p>36. What types of additives do you use? <i>Specify below:</i></p> <p>_____ <input type="checkbox"/><sub>1(K03601)</sub></p> <p>_____ <input type="checkbox"/><sub>2(K03602)</sub></p>
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37. How do you manage solid manure while it is in storage? *Is it ...?*

Not moved or disturbed ..... <sub>1(K03701)</sub>

Moved or disturbed once or twice  
(e.g. to consolidate a pile or make room for more manure from the barn)..... <sub>2(K03702)</sub>

Routinely and thoroughly mixed or turned  
(e.g. to accelerate composting) ..... <sub>3(K03703)</sub>



38. What is the percentage of solid manure handled through each method you use?

What percentage is ...?

	%			
Spread on land (by you or someone else).....				1(K03801)
Composted (then spread on land).....				2(K03802)
Removed by contractor (don't know how it is used).....				3(K03803)
Other, specify: _____				4 (K03804) .. 5(K03805)

**Total must be 100%**

### Section 3 – Land spreading of solid manure

**\*Please refer to a normal year\***

39. Is solid manure from your broiler and roaster operation spread on land (spread on any land by the operator or by someone else)?

Yes.....  (K03901) ↓ Please complete Section 3

No .....  (K03902) → Go to Section 4 (page 10)

40. When the manure is tilled into the soil, what amount would you estimate is still exposed to the air ...?

Less than 25% (such as with moldboard plow) . . . . .  1(K04001)

25% to 50% (such as with disc or chisel plow).. . . . .  2(K04002)

More than 50% (such as with harrow) . . . . .  3(K04003)

41. Of the total amount of solid manure from your broiler and roaster operation applied on land, what percentage is spread on ...?

	%			
Tilled crop land (most crop residue tilled into soil) .....				1(K04101) → Answer questions 42 and 43
Reduced till crop land (most crop residue retained on surface) .....				2(K04102) → Answer question 44
Land covered with perennial or forage crops .....				3(K04103) → Answer question 44
Other, specify: _____				4(K04104) .. 5(K04105) → Go to question 45

**Total must be 100%**

If solid manure is applied on tilled crop land, answer questions 42 and 43. Else go to question 44.

<p>42. Of the total (<i>solid</i>) manure applied on tilled soil, what percentage is usually applied in each month?</p> <p>What percentage is applied in ...?</p> <p style="text-align: center;"><b>%</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 30%;">January .....</td><td style="width: 40%; text-align: center;">     </td><td style="width: 30%; text-align: right;">1(K04201)</td></tr> <tr><td>February .....</td><td style="text-align: center;">     </td><td style="text-align: right;">2(K04202)</td></tr> <tr><td>March .....</td><td style="text-align: center;">     </td><td style="text-align: right;">3(K04203)</td></tr> <tr><td>April .....</td><td style="text-align: center;">     </td><td style="text-align: right;">4(K04204)</td></tr> <tr><td>May .....</td><td style="text-align: center;">     </td><td style="text-align: right;">5(K04205)</td></tr> <tr><td>June .....</td><td style="text-align: center;">     </td><td style="text-align: right;">6(K04206)</td></tr> <tr><td>July .....</td><td style="text-align: center;">     </td><td style="text-align: right;">7(K04207)</td></tr> <tr><td>August .....</td><td style="text-align: center;">     </td><td style="text-align: right;">8(K04208)</td></tr> <tr><td>September .....</td><td style="text-align: center;">     </td><td style="text-align: right;">9(K04209)</td></tr> <tr><td>October .....</td><td style="text-align: center;">     </td><td style="text-align: right;">10(K04210)</td></tr> <tr><td>November .....</td><td style="text-align: center;">     </td><td style="text-align: right;">11(K04211)</td></tr> <tr><td>December .....</td><td style="text-align: center;">     </td><td style="text-align: right;">12(K04212)</td></tr> </table> <p style="text-align: center;"><b>Total must be 100%</b></p> <p>All year round at regular intervals <input type="checkbox"/> 13(K04213)</p>	January .....		1(K04201)	February .....		2(K04202)	March .....		3(K04203)	April .....		4(K04204)	May .....		5(K04205)	June .....		6(K04206)	July .....		7(K04207)	August .....		8(K04208)	September .....		9(K04209)	October .....		10(K04210)	November .....		11(K04211)	December .....		12(K04212)	<p>43. For each period, how many days after spreading is the manure incorporated (<i>tilled</i>) into soil?</p> <p>If different for different fields, give the most common. (Incorporated same day = 0 days).</p> <p style="text-align: center;"><b>Days</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 30%;">January .....</td><td style="width: 40%; text-align: center;">     </td><td style="width: 30%; text-align: right;">1(K04301)</td></tr> <tr><td>February .....</td><td style="text-align: center;">     </td><td style="text-align: right;">2(K04302)</td></tr> <tr><td>March .....</td><td style="text-align: center;">     </td><td style="text-align: right;">3(K04303)</td></tr> <tr><td>April .....</td><td style="text-align: center;">     </td><td style="text-align: right;">4(K04304)</td></tr> <tr><td>May .....</td><td style="text-align: center;">     </td><td style="text-align: right;">5(K04305)</td></tr> <tr><td>June .....</td><td style="text-align: center;">     </td><td style="text-align: right;">6(K04306)</td></tr> <tr><td>July .....</td><td style="text-align: center;">     </td><td style="text-align: right;">7(K04307)</td></tr> <tr><td>August .....</td><td style="text-align: center;">     </td><td style="text-align: right;">8(K04308)</td></tr> <tr><td>September .....</td><td style="text-align: center;">     </td><td style="text-align: right;">9(K04309)</td></tr> <tr><td>October .....</td><td style="text-align: center;">     </td><td style="text-align: right;">10(K04310)</td></tr> <tr><td>November .....</td><td style="text-align: center;">     </td><td style="text-align: right;">11(K04311)</td></tr> <tr><td>December .....</td><td style="text-align: center;">     </td><td style="text-align: right;">12(K04312)</td></tr> </table> <p>Not applicable (<i>manure is not incorporated into soil</i>) <input type="checkbox"/> 13(K04313)</p>	January .....		1(K04301)	February .....		2(K04302)	March .....		3(K04303)	April .....		4(K04304)	May .....		5(K04305)	June .....		6(K04306)	July .....		7(K04307)	August .....		8(K04308)	September .....		9(K04309)	October .....		10(K04310)	November .....		11(K04311)	December .....		12(K04312)
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FOR INFORMATION ONLY

If solid manure is applied on reduced till, perennial or forage crop land, answer question 44.

Else go to question 45.

44. Of the total (solid) manure applied on reduced till crop land, perennial or forage crop land, what percentage is applied in each month?

	%
January .....	<input type="text"/> <input type="text"/> <input type="text"/> 1(K04401)
February .....	<input type="text"/> <input type="text"/> <input type="text"/> 2(K04402)
March .....	<input type="text"/> <input type="text"/> <input type="text"/> 3(K04403)
April.....	<input type="text"/> <input type="text"/> <input type="text"/> 4(K04404)
May .....	<input type="text"/> <input type="text"/> <input type="text"/> 5(K04405)
June .....	<input type="text"/> <input type="text"/> <input type="text"/> 6(K04406)
July.....	<input type="text"/> <input type="text"/> <input type="text"/> 7(K04407)
August.....	<input type="text"/> <input type="text"/> <input type="text"/> 8(K04408)
September .....	<input type="text"/> <input type="text"/> <input type="text"/> 9(K04409)
October .....	<input type="text"/> <input type="text"/> <input type="text"/> 10(K04410)
November .....	<input type="text"/> <input type="text"/> <input type="text"/> 11(K04411)
December .....	<input type="text"/> <input type="text"/> <input type="text"/> 12(K04412)
<b>Total must be 100%</b>	
All year round at regular intervals <input type="checkbox"/> 13(K04413)	

45. In the past 3 years, has a chemical analysis of the solid manure been done for levels of Nitrogen, Phosphorus, Potassium, micronutrient or moisture content?

Yes.....  1(K04501) → Answer question 46

No .....  2(K04502) ↓ Go to question 47

46. What were the lab results? (**Specify units of measure and range** e.g., 45 to 53 kg Nitrogen per tonne or 0.45 to 0.53% nitrate Nitrogen).

**Unit of measure codes:**

- 1 = Kilograms (kg) per (metric) tonne of manure
- 2 = Pounds (lb) per (imperial) ton of manure
- 3 = Percentage

Enter range in first eight boxes and enter the decimal point if needed. Enter unit of measure in last box to right e.g.:

to

**Lab results (numbers) of chemical analysis:**

<i>Moisture content</i>	<i>Unit of measure</i>
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> to <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>
1(K04601)	2(K04602) 3(K04603)

<i>Dry matter content</i>	<input type="text"/>
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> to <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>
4(K04604)	5(K04605) 6(K04606)

<i>Total Nitrogen (N)</i>	<input type="text"/>
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> to <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>
7(K04607)	8(K04608) 9(K04609)

<i>Ammonium (NH<sub>4</sub>)</i>	<input type="text"/>
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> to <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>
10(K04610)	11(K04611) 12(K04612)

<i>Phosphorus (P)</i>	<input type="text"/>
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> to <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>
13(K04613)	14(K04614) 15(K04615)

<p>47. Do you usually land spread (<i>solid</i>) manure at a particular time of day?</p> <p>Yes..... <input type="checkbox"/><sub>1(K04701)</sub> → Answer question 48</p> <p>No, it is spread whenever possible...<input type="checkbox"/><sub>2(K04702)</sub></p> <p>↓Go to question 49</p>	<p>48. Is it usually spread between: ...?</p> <p>10 a.m. and 6 p.m. ....<input type="checkbox"/><sub>1(K04801)</sub></p> <p>6 p.m. and 10 a.m. ....<input type="checkbox"/><sub>2(K04802)</sub></p>
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49. Do you land spread manure when the wind speed is ...?
- Calm, say below 5 km/hour (*a flag might hang or ripple gently at this wind speed*) ..... <sub>1(K04901)</sub>
- Brisk or strong, say about 5 to 9 km/hour (*a flag would fly straight out at this wind speed*) .....<sub>2(K04902)</sub>
- Any speed, the job gets done whenever it is possible ..... <sub>3(K04903)</sub>

## Section 4 - Handling and storage of liquid manure

**\*Please refer to a normal year\***

50. Do you store liquid manure (*slurry*) from your broiler and roaster operation?
- Yes..... <sub>1(K05001)</sub> ↓ Please complete Section 4
- No ..... <sub>2(K05002)</sub> → Go to Section 5 (page 12)
51. How long do you usually store liquid manure collected over **winter**? (*December to March*)
- Is it stored ...?*
- Less than 1 month ..... <sub>1(K05101)</sub>
- From 1 to less than 6 months ..... <sub>2(K05102)</sub>
- From 6 to less than 12 months ..... <sub>3(K05103)</sub>
- 12 months or longer..... <sub>4(K05104)</sub>
- Not stored over winter. .... <sub>5(K05105)</sub>
52. How long do you usually store liquid manure collected from **spring to fall**? (*April to November*)
- Is it stored ...?*
- Less than 1 month ..... <sub>1(K05201)</sub>
- From 1 to less than 6 months ..... <sub>2(K05202)</sub>
- From 6 to less than 12 months ..... <sub>3(K05203)</sub>
- 12 months or longer..... <sub>4(K05204)</sub>
- Not stored over spring to fall..... <sub>5(K05205)</sub>

<p>53. Do you separate solids from liquid manure (<i>slurry</i>)?</p> <p>Yes..... <input type="checkbox"/><sub>1(K05301)</sub> → Answer question 54</p> <p>No ..... <input type="checkbox"/><sub>2(K05302)</sub> ↓ Go to question 55</p> <p>Not applicable ..... <input type="checkbox"/><sub>3(K05303)</sub> ↓ Go to question 55</p>	<p>54. What do you use to separate solids from liquid manure?</p> <p>Liquid drawn off top of tank ..... <input type="checkbox"/><sub>1(K05401)</sub></p> <p>Settling ponds or weeping walls ..... <input type="checkbox"/><sub>2(K05402)</sub></p> <p>Screens ..... <input type="checkbox"/><sub>3(K05403)</sub></p> <p>Presses (belt, screw or other ) ..... <input type="checkbox"/><sub>4(K05404)</sub></p> <p>Other, specify: _____<sub>5(K05405)</sub></p>
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55. Which of the following describes the main (or largest) liquid manure storage space you used?  
Is it a ...?

- Tank above ground.....  1(K05501)
- Lined or cement pit.....  2(K05502)
- Lagoon or dugout in ground ....  3(K05503)
- Other, specify: \_\_\_\_\_ 4(K05504)

56. Is your main (or largest) liquid manure storage space ...?

- Open, so rain might get in .....  1(K05601)
- Covered with a roof.....  2(K05602)

57. On your main (or largest) liquid manure storage, is there ...?

- A floating crust formed by the manure..  1(K05701)
- A floating cover such as a floating lid or tarp ....  2(K05702)
- A floating cover such as straw .....  3(K05703)
- No floating cover or crust.....  4(K05704)

58. How do you usually manage liquid manure while it is in storage? Is it ...?

- Not aerated or agitated until just before taken out .....  1(K05801)
- Aerated or agitated up to three times per month.....  2(K05802)
- Aerated or agitated four times or more per month .....  3(K05803)

59. What becomes of liquid manure on your operation? Is it ...?

Check all that apply.

- Spread on land (by you or someone else).....  1(K05901)
- Composted (then spread on land).....  2(K05902)
- Removed by contractor (don't know how it is used).....  3(K05903)
- Other, specify: \_\_\_\_\_ 4(K05904)

60. What percentage of liquid manure (from your broiler and roaster operation) is disposed of through each method you use?

What percentage is ...?

- Spread on land (by you or someone else)..... 

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 1(K06001)
- Removed by contractor (don't know how it is used)..... 

--	--	--

 2(K06002)
- Other, specify: \_\_\_\_\_ 

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 3(K06003) 4(K06004)

%

**Total must be 100%**

<p>61. Do you put any additives into the liquid manure, to modify odour, pH or nutrient retention? Exclude litter.</p> <p>Yes ..... <input type="checkbox"/> 1(K06101) → Answer question 62</p> <p>No ..... <input type="checkbox"/> 2(K06102) ↓ Go to question 63</p>	<p>62. What types of additives do you use?</p> <p>Specify below:</p> <p>_____ 1(K06201)</p> <p>_____ 2(K06202)</p>
--	--

63. What are the dimensions of the surface area of your main (or largest) liquid manure storage space ...?  
 (If oval give length and width. If round give diameter in Box 5 or 6).

feet<sub>1(K06301)</sub> by  feet<sub>2(K06302)</sub>

-----Or-----

metres<sub>3(K06303)</sub> by  metres<sub>4(K06304)</sub>

-----Or-----

**(Box 5)**  
 diameter in feet<sub>5(K06305)</sub>

**(Box 6)**  
 diameter in metres<sub>6(K06306)</sub>

64. What is the depth (pit capacity) of your main (or largest) liquid manure storage?

feet<sub>1(K06401)</sub> ---Or-----  metres<sub>2(K06402)</sub>

**Section 5 – Land spreading of liquid manure (slurry)**

**\*Please refer to a normal year\***

65. Is liquid manure (slurry) from your broiler and roaster operation usually spread on land (spread on any land by the operator or by someone else)?

Yes..... <sub>1(K06501)</sub> ↓ Please complete Section 5

No ..... <sub>2(K06502)</sub> → Go to Section 6 (page 15)

66. Of the total liquid manure from your broiler and roaster operation applied on land, what percentage is spread on ...?

Tilled crop land (most crop residue tilled into soil) .....	<input type="text"/> <input type="text"/> <input type="text"/>	<sub>1(K06601)</sub> → Answer questions 67 and 68
Reduced till crop land (most crop residue retained on surface. ...)	<input type="text"/> <input type="text"/> <input type="text"/>	<sub>2(K06602)</sub> → Answer question 69
Land covered with perennial crops or forage crops .....	<input type="text"/> <input type="text"/> <input type="text"/>	<sub>3(K06603)</sub> → Answer question 69
Other, specify: _____	<input type="text"/> <input type="text"/> <input type="text"/>	<sub>4(K06604)</sub> <sub>5(K06605)</sub> → Go to question 70

**Total must be 100%**

**\*\*If applied on tilled land answer questions 67 and 68. Else go to question 69. \*\***

<p>67. Of the total (<i>liquid</i>) manure applied on tilled soil, what percentage is usually applied in each month?</p> <p><i>What percentage is applied in ...?</i></p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; border: none;">%</th> <th style="border: none;"></th> </tr> </thead> <tbody> <tr><td>January .....</td><td><input type="text"/><input type="text"/><input type="text"/> 1(K06701)</td></tr> <tr><td>February.....</td><td><input type="text"/><input type="text"/><input type="text"/> 2(K06702)</td></tr> <tr><td>March.....</td><td><input type="text"/><input type="text"/><input type="text"/> 3(K06703)</td></tr> <tr><td>April.....</td><td><input type="text"/><input type="text"/><input type="text"/> 4(K06704)</td></tr> <tr><td>May.....</td><td><input type="text"/><input type="text"/><input type="text"/> 5(K06705)</td></tr> <tr><td>June.....</td><td><input type="text"/><input type="text"/><input type="text"/> 6(K06706)</td></tr> <tr><td>July.....</td><td><input type="text"/><input type="text"/><input type="text"/> 7(K06707)</td></tr> <tr><td>August.....</td><td><input type="text"/><input type="text"/><input type="text"/> 8(K06708)</td></tr> <tr><td>September.....</td><td><input type="text"/><input type="text"/><input type="text"/> 9(K06709)</td></tr> <tr><td>October.....</td><td><input type="text"/><input type="text"/><input type="text"/> 10(K06710)</td></tr> <tr><td>November.....</td><td><input type="text"/><input type="text"/><input type="text"/> 11(K06711)</td></tr> <tr><td>December.....</td><td><input type="text"/><input type="text"/><input type="text"/> 12(K06712)</td></tr> <tr> <td colspan="2" style="text-align: center;"><b>Total must be 100%</b></td> </tr> <tr> <td colspan="2">All year round at regular intervals <input type="checkbox"/> 13(K06713)</td> </tr> </tbody> </table>	%		January .....	<input type="text"/> <input type="text"/> <input type="text"/> 1(K06701)	February.....	<input type="text"/> <input type="text"/> <input type="text"/> 2(K06702)	March.....	<input type="text"/> <input type="text"/> <input type="text"/> 3(K06703)	April.....	<input type="text"/> <input type="text"/> <input type="text"/> 4(K06704)	May.....	<input type="text"/> <input type="text"/> <input type="text"/> 5(K06705)	June.....	<input type="text"/> <input type="text"/> <input type="text"/> 6(K06706)	July.....	<input type="text"/> <input type="text"/> <input type="text"/> 7(K06707)	August.....	<input type="text"/> <input type="text"/> <input type="text"/> 8(K06708)	September.....	<input type="text"/> <input type="text"/> <input type="text"/> 9(K06709)	October.....	<input type="text"/> <input type="text"/> <input type="text"/> 10(K06710)	November.....	<input type="text"/> <input type="text"/> <input type="text"/> 11(K06711)	December.....	<input type="text"/> <input type="text"/> <input type="text"/> 12(K06712)	<b>Total must be 100%</b>		All year round at regular intervals <input type="checkbox"/> 13(K06713)		<p>68. For each period, how many days after spreading is the manure incorporated (<i>tilled</i>) into soil? <b>If different for different fields, give the most common</b> (Less than 2 hours = 0 days. From 2 to 24 hours = 0.5 days).</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="border: none;"></th> <th style="text-align: center; border: none;">Days</th> <th style="border: none;"></th> </tr> </thead> <tbody> <tr><td>January .....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>1(K06801)</td></tr> <tr><td>February.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>2(K06802)</td></tr> <tr><td>March.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>3(K06803)</td></tr> <tr><td>April.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>4(K06804)</td></tr> <tr><td>May.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>5(K06805)</td></tr> <tr><td>June.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>6(K06806)</td></tr> <tr><td>July.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>7(K06807)</td></tr> <tr><td>August.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>8(K06808)</td></tr> <tr><td>September.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>9(K06809)</td></tr> <tr><td>October.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>10(K06810)</td></tr> <tr><td>November.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>11(K06811)</td></tr> <tr><td>December.....</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>12(K06812)</td></tr> <tr> <td colspan="3">Not applicable (<i>manure is not incorporated into soil</i>) <input type="checkbox"/> 13(K06813)</td> </tr> </tbody> </table>		Days		January .....	<input type="text"/> <input type="text"/> <input type="text"/>	1(K06801)	February.....	<input type="text"/> <input type="text"/> <input type="text"/>	2(K06802)	March.....	<input type="text"/> <input type="text"/> <input type="text"/>	3(K06803)	April.....	<input type="text"/> <input type="text"/> <input type="text"/>	4(K06804)	May.....	<input type="text"/> <input type="text"/> <input type="text"/>	5(K06805)	June.....	<input type="text"/> <input type="text"/> <input type="text"/>	6(K06806)	July.....	<input type="text"/> <input type="text"/> <input type="text"/>	7(K06807)	August.....	<input type="text"/> <input type="text"/> <input type="text"/>	8(K06808)	September.....	<input type="text"/> <input type="text"/> <input type="text"/>	9(K06809)	October.....	<input type="text"/> <input type="text"/> <input type="text"/>	10(K06810)	November.....	<input type="text"/> <input type="text"/> <input type="text"/>	11(K06811)	December.....	<input type="text"/> <input type="text"/> <input type="text"/>	12(K06812)	Not applicable ( <i>manure is not incorporated into soil</i> ) <input type="checkbox"/> 13(K06813)		
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Not applicable ( <i>manure is not incorporated into soil</i> ) <input type="checkbox"/> 13(K06813)																																																																									

**\*\*If applied on reduced till or perennial crop land, answer question 69. Else go to question 70\*\***

69. Of the total liquid manure applied on reduced till, perennial or forage crop land, what percentage is applied in each month:

	%	
January .....	<input type="text"/> <input type="text"/> <input type="text"/>	1(K06901)
February.....	<input type="text"/> <input type="text"/> <input type="text"/>	2(K06902)
March.....	<input type="text"/> <input type="text"/> <input type="text"/>	3(K06903)
April.....	<input type="text"/> <input type="text"/> <input type="text"/>	4(K06904)
May.....	<input type="text"/> <input type="text"/> <input type="text"/>	5(K06905)
June.....	<input type="text"/> <input type="text"/> <input type="text"/>	6(K06906)
July.....	<input type="text"/> <input type="text"/> <input type="text"/>	7(K06907)
August.....	<input type="text"/> <input type="text"/> <input type="text"/>	8(K06908)
September.....	<input type="text"/> <input type="text"/> <input type="text"/>	9(K06909)
October.....	<input type="text"/> <input type="text"/> <input type="text"/>	10(K06910)
November.....	<input type="text"/> <input type="text"/> <input type="text"/>	11(K06911)
December.....	<input type="text"/> <input type="text"/> <input type="text"/>	12(K06912)
<b>Total must be 100%</b>		
All year round at regular intervals <input type="checkbox"/> 13(K06913)		

<p>70. Do you usually land spread (<i>liquid</i>) manure at a particular time of day?</p> <p>Yes..... <input type="checkbox"/><sub>1(K07001)</sub></p> <p>→ Answer question 71</p> <p>No, manure is spread whenever possible ... <input type="checkbox"/><sub>2(K07002)</sub></p> <p>↓ Go to question 72</p>	<p>71. Is it usually spread between: ...?</p> <p>10 a.m. and 6 p.m. .... <input type="checkbox"/><sub>1(K07101)</sub></p> <p>6 p.m. and 10a.m. .... <input type="checkbox"/><sub>2(K07102)</sub></p>
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72. What best describes the consistency of the liquid manure on your operation?

- Runny like water ..... <sub>1(K07201)</sub>
- Pea soup..... <sub>2(K07202)</sub>
- Toothpaste..... <sub>3(K07203)</sub>

73. What method do you usually use to spread liquid manure? Give the approximate percentage of total liquid manure spread by each method.

What percentage is ...?

	%				
Broadcast over soil surface, over stubble or residue .....	<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> </tr> </table>				1(K07301)
Narrow bands on soil surface such as with drop hoses or a sleighfoot .....	<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> </tr> </table>				2(K07302)
Shallow injected, where some of the manure remains on the soil surface .....	<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> </tr> </table>				3(K07303)
Deep injected, where little of the manure remains on the soil surface .....	<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> </tr> </table>				4(K07304)
Irrigated (e.g. with a pivot gun) .....	<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> </tr> </table>				5(K07305)
Other, <i>specify</i> : _____	<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> <td style="width: 33.33%;"></td> </tr> </table>				6(K07306) 7(K07307)
<b>Total must be 100%</b>					

<p>74. Does the method you use to spread <u>liquid manure</u> change from season to season?</p> <p>Yes ..... <input type="checkbox"/><sub>1(K07401)</sub> → Answer question 75</p> <p>No, same method used all year <input type="checkbox"/><sub>2(K07402)</sub></p> <p>↓ Go to question 76</p>	<p>75. Do you usually ...?</p> <p>Inject in spring or fall, broadcast in summer ..... <input type="checkbox"/><sub>1(K07501)</sub></p> <p>Other, <i>specify</i>: _____ <input type="checkbox"/><sub>2(K07502)</sub></p>
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76. Do you usually land spread (*liquid*) manure when wind speed is ...?

- Calm, say below 5 km/hour (*a flag might hang or ripple gently at this wind speed*) ..... <sub>1(K07601)</sub>
- Brisk or strong, say about 5 to 9 km/hour (*a flag would fly straight out at this wind speed*)..... <sub>2(K07602)</sub>
- Any speed, the job gets done whenever it is possible .... <sub>3(K07603)</sub>



77. In the past 3 years, has a chemical analysis of the liquid manure been done for levels of Nitrogen, Phosphorus, Potassium, micronutrient or moisture content?

Yes..... <sub>1(K07701)</sub> → Answer question 78

No ..... <sub>2(K07702)</sub> ↓ Go to question 79

78. What were the lab results? (**Specify units of measure and range** e.g., 45 to 53 kg Nitrogen per tonne or 0.45 to 0.53% nitrate Nitrogen).

**Unit of measure codes:**

1 = Kilograms (kg) per (metric) tonne of manure  
 2 = Pounds (lb) per (imperial) ton of manure  
 3 = Percentage

Enter range in first eight boxes and enter the decimal point if needed. Enter unit of measure in last box to right e.g.:

to

**Lab results (numbers) of chemical analysis:**

Moisture content	Unit of measure
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> to <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>
1(K07801)	2(K07802) 3(K07803)
Dry matter content	
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> to <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>
4(K07804)	5(K07805) 6(K07806)
Total Nitrogen (N)	
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> to <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>
7(K07807)	8(K07808) 9(K07809)
Ammonium (NH <sub>4</sub> )	
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> to <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>
10(K07810)	11(K07811) 12(K07812)
Phosphorus (P)	
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> to <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>
13(K07813)	14(K07814) 15(K07815)

## Section 6 - Odour management and nutrient conservation

**\*Please refer to a normal year\***

79. At what stage of your broiler and roaster operation's cycle, if any, is the odour of manure stronger than it is **usually**?

Check all that apply.

Is it more often stronger during ...?

Barn cleaning ..... <sub>1(K07901)</sub>

Land spreading ..... <sub>2(K07902)</sub>

Agitation of manure ..... <sub>3(K07903)</sub>

Mixing or composting ..... <sub>4(K07904)</sub>

Other, specify: \_\_\_\_\_ <sub>5(K07905)</sub>

No differences throughout the year ..... <sub>6(K07906)</sub>

**If no differences in odour throughout the year, go to question 82.**

80. How many times per year is the odour of manure from your (broiler and roaster) operation stronger than it is usually?

Time(s)<sub>1(K08001)</sub>

81. Usually, how many days per year does this stronger odour of manure last?

Day(s)<sub>1(K08101)</sub>

