



2005 Livestock Farm Practices Survey Pig Producers



DRAFT ONLY

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 | |

Please indicate start time of interview:

| | | | | |
|---|--|---|--|---|
| | | : | | |
| 1 | | | | 2 |

| | | | |
|--------------------|-----|----|--|
| In operation | 004 | 00 | |
| Change of operator | 004 | 12 | |
| Out of business | 004 | 13 | |

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 pig 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 pig 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 11 | Area code 14 |
| Operator name 12 | Telephone 15 |
| Contact name 13 | Telephone 16 |
| P.O. Box 17 18 | Number and street name 19 |
| Postal code 20 | Post office (name of city, town or village where mail is received) 21 |

For questions about pigs include the following:

- All pigs on your operation, regardless of ownership, including those that are custom fed or fed under contract for others.

For questions about pigs exclude the following:

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

1. What type of commercial pig operations do you own or manage? Check all that apply.

Farrowing ₁

Grower (feeder) and finisher pigs ₂

Finishing (finishers)..... ₃

Farrow to finish ₄

Other commercial production, specify: _____ ₅

Section 1 – Grower (feeder) and finisher pigs including weaners

2. In 2005, what was the average number of pigs (*weaners*) under 45 lb (less than 20 kg) on your farm operation at any one time?

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

 Pigs₁ (*less than 45 lb or 20 kg*)

3. In 2005, did you have grower and/or finisher pigs on your farm operation? Include any weaned pigs. Exclude boars and breeding sows.

Yes..... ₁ ↓ Please complete Section 1

No ₂ → Go to Section 2 (page 8)

4. In 2005, what was the average number of grower and finisher pigs 45 lb and over (20 kg and over) on your farm operation at any one time?

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

 Pigs₁ (*45 lb or 20 kg and over*)

5. How many pigs weighing less than 220 lb (100 kg) did you ship for slaughter in 2005?

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

 Pigs₁ (*less than 220 lb or 100 kg*)

6. How many weighing between 220 and 260 lb (100 to 120 kg) did you ship for slaughter in 2005?

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

 Pigs₁ (*220 to 260 lb or 100 to 120 kg*)

7. How many weighing more than 260 lb (120 kg) did you ship for slaughter in 2005?

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

 Pigs₁ (*more than 260 lb or 120 kg*)

8. In 2005, did you sell pigs to another operation for finishing?

Yes..... ₁

No ₂

9. How many separate building(s) did you use to house your pigs in 2005?

| | | |
|--|--|--|
| | | |
|--|--|--|

 Building(s)₁

10. In 2005, what was the average temperature in the production part of your grower and finisher pig building?
 (If more than one building, answer for the largest production building).

About the same as outdoors ₁

Warmer than outdoors in summer by: °C₂ ---Or--- °F₃

Cooler than outdoors in summer by: °C₄ ---Or--- °F₅

Warmer than outdoors in winter by: °C₆ ---Or--- °F₇

11. What type of ventilation system did you have in your grower and finisher pig buildings?

Check all that apply.

Fans switched on automatically with computer ₁

Fans switched on automatically with thermostat ₂

Fans switched on manually ₃

Passive ventilation (side curtains, free air or vent panels) ₄

Other, specify: _____ ₅

₆ Not applicable

12. Did you have 'pit fans', such as fans over a sub-floor or separate manure pit, placed to specifically draw air over the manure in the grower and finisher pig building(s)?

Yes..... ₁

No ₂

13. Did you have filters on your vents or vent fans to control dust or odour emissions in your pig buildings?

Yes..... ₁

No ₂

| | |
|--|--|
| <p>14. In 2005, what proportion of your grower and finisher pig feed came from commercial feed suppliers?</p> <p>More than 75% <input type="checkbox"/>₁ → Answer question 15</p> <p>25% to 75% <input type="checkbox"/>₂ → Answer question 15</p> <p>Less than 25%..... <input type="checkbox"/>₃ ↓ Go to question 16</p> <p>None <input type="checkbox"/>₄ ↓ Go to question 16</p> | <p>15. What commercial feed products did you obtain?</p> <p>Check all that apply</p> <p>Complete feed <input type="checkbox"/>₁</p> <p>Protein supplements <input type="checkbox"/>₂</p> <p>Amino acids <input type="checkbox"/>₃</p> <p>Vitamin / mineral premixes <input type="checkbox"/>₄</p> <p>Other, specify: _____ <input type="checkbox"/>₅</p> <p>Don't know <input type="checkbox"/>₆</p> |
|--|--|

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>16. Does the percentage (%) of crude protein content of grower and finisher pig diet change for each stage of production?</p> <p>Yes... <input type="checkbox"/> ₁ → Answer questions 18 and 19</p> <p>No ... <input type="checkbox"/> ₂ ↓ Go to question 17</p> | <p>18. In 2005, what was the percentage (%) of crude protein content of the feed used for your pigs during each stage of production?</p> <p style="text-align: right;">% crude protein</p> <p>First stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₁</p> <p>Second stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₂</p> <p>Third stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₃</p> <p>Fourth stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₄</p> <p>Fifth stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₅</p> <p>Other stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₆</p> <p>Specify: _____ <input type="checkbox"/> ₇</p> <p>Don't know <input type="checkbox"/> ₈</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>17. What was the percentage (%) of crude protein content of the feed used for your pig diet?</p> <p><table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> % of crude protein ₁</p> <p>Don't know <input type="checkbox"/> ₂</p> <p>↓ Go to question 20</p> | | | <p>19. What weight were the pigs at the <u>start of each stage of production</u>?</p> <p style="text-align: center;">kg lb</p> <p>First stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₁ <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₂</p> <p>Second stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₃ <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₄</p> <p>Third stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₅ <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₆</p> <p>Fourth stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₇ <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₈</p> <p>Fifth stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₉ <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₁₀</p> <p>Other stage of production: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₁₁ <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> ₁₂</p> <p>Specify: _____ <input type="checkbox"/> ₁₃</p> <p>Don't know <input type="checkbox"/> ₁₄</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

20. For your finishers (60 kg and over) in 2005, what was the feed conversion efficiency for the last completed cycle (the quantity of feed needed to produce 1 kg or 1 lb of live weight of pig)?

| | | | | |
|--|--|---|--|--|
| | | . | | |
|--|--|---|--|--|

Feed conversion efficiency rate (lb or kg) ₁

Or

Don't know ₂

| | |
|---|--|
| <p>21. In 2005, did you mix feed, other than minerals, for the pigs on your operation?</p> <p>Yes <input type="checkbox"/>₁ → Answer questions 22 to 25</p> <p>No ... <input type="checkbox"/>₂ ↓ Go to question 26</p> | <p>22. What ingredients did you mix? (<i>Do not include commercial vitamin, mineral premixes or protein supplements</i>).</p> <p><i>Check all that apply.</i></p> <p>Corn <input type="checkbox"/>₁</p> <p>Cereals (<i>e.g. barley, wheat, rye</i>) <input type="checkbox"/>₂</p> <p>Soybean meal <input type="checkbox"/>₃</p> <p>Soybean grain <input type="checkbox"/>₄</p> <p>Canola meal <input type="checkbox"/>₅</p> <p>Other plant proteins (<i>e.g. peas</i>) <input type="checkbox"/>₆</p> <p>Animal proteins (<i>e.g. whey or skim milk powder</i>) <input type="checkbox"/>₇</p> <p>Other, <i>specify:</i> _____ <input type="checkbox"/>₈</p> |
| | <p>23. Which best describes how you formulated your pig diet?</p> <p><i>Check all that apply</i></p> <p>Based on farm experience and records <input type="checkbox"/>₁</p> <p>Following tag instructions <input type="checkbox"/>₂</p> <p>Following directions or advice from nutritionist or veterinarian. .. <input type="checkbox"/>₃</p> <p>Other, <i>specify:</i> _____ <input type="checkbox"/>₄</p> <p>Don't know <input type="checkbox"/>₅</p> |
| | <p>24. How often were these ingredients analysed for protein content?</p> <p>Never <input type="checkbox"/>₁</p> <p>On occasion, but not in 2005 <input type="checkbox"/>₂</p> <p>One to four times in 2005 <input type="checkbox"/>₃</p> <p>Five or more times in 2005 <input type="checkbox"/>₄</p> |
| | <p>25. If the finished feed was analysed in 2005, was the crude protein content:</p> <p>Usually under your target protein content <input type="checkbox"/>₁</p> <p>Usually meeting your target protein content..... <input type="checkbox"/>₂</p> <p>Usually over your target protein content..... <input type="checkbox"/>₃</p> |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>26. Which best describes how your grower and finisher pigs are housed? If there is more than one building, answer for the largest.</p> <p><i>Check all that apply.</i></p> <p>On litter (straw, sawdust, etc.) .. <input type="checkbox"/>₁</p> <p style="padding-left: 40px;">→ Answer questions 27 to 29</p> <p>Solid concrete floor <input type="checkbox"/>₂ ↓ Go to question 30</p> <p>On partially slatted floor <input type="checkbox"/>₃ ↓ Go to question 30</p> <p>On fully slatted floor <input type="checkbox"/>₄ ↓ Go to question 30</p> <p>Other, specify: _____ <input type="checkbox"/>₅</p> <p style="text-align: center;">↓ Go to question 30</p> | <p>27. What type of litter did you use for your pigs?</p> <p>Straw or other crop residue..... <input type="checkbox"/>₁</p> <p>Sawdust, wood chips or shavings <input type="checkbox"/>₂</p> <p>Paper crumb or other forest product..... <input type="checkbox"/>₃</p> <p>Sand, gravel or other mineral product .. <input type="checkbox"/>₄</p> <p>Other, specify: _____ <input type="checkbox"/>₅</p> <hr/> <p>28. How often did you add fresh bedding? Specify the usual number of days between one addition and the next.</p> <p style="text-align: center;"> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Days ₁ </p> <hr/> <p>29. Approximately how much bedding do you use per year for all your grower and finisher pigs?</p> <p style="text-align: center;"> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Cubic yards/metres₁ </p> <p style="text-align: center;">-----Or-----</p> <p style="text-align: center;"> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Number of large bales₂ </p> <p style="text-align: center;">-----Or-----</p> <p style="text-align: center;"> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Number of small bales₃ </p> <p style="text-align: center;">-----Or-----</p> <p style="text-align: center;"> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Tonnes (metric)₄ </p> <p style="text-align: center;">-----Or-----</p> <p style="text-align: center;"> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Tons (imperial)₅ </p> <p style="text-align: center;">-----Or-----</p> <p style="text-align: center;"> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Other units₆ </p> <p>Specify units: _____ <input type="checkbox"/>₇</p> <p>Don't know <input type="checkbox"/>₈</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

30. What is the main form of manure you collect from your pigs?

Slurry or liquid manure ₁

Solid or semi-solid manure with little or no bedding ₂

Solid manure with bedding ₃

Other, specify: _____ ₄

| | |
|--|---|
| <p>31. Do you use scrapers or slurry-based manure systems to clean barn slats or floors of your grower and finisher pig building? <i>If there is more than one, answer for the largest production building.</i></p> <p>Yes <input type="checkbox"/> ₁ → Answer questions 32 and 33</p> <p>No..... <input type="checkbox"/> ₂ ↓ Go to question 34</p> | <p>32. How often did you <u>wash down or scrape</u> the slats or floors? Specify the most common number of days between one cleaning and the next.</p> <div style="text-align: right;"> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> Days₁ </div> |
| | <p>33. How often did you <u>completely clean manure out</u> of the building, including pumping out sub-floor pits? <i>Specify the most common number of days between one cleaning and the next.</i></p> <div style="text-align: right;"> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> Days₁ </div> |

34. In 2005, what was the percentage of all the manure removed from your grower and finisher pig building(s) in the following periods? *What percentage was removed in...?*

| | % | |
|-----------------------------|--|---|
| April to May..... | <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> | 1 |
| June to August | <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> | 2 |
| September to November | <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> | 3 |
| December to March | <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 30px; height: 20px; border: 1px solid black;" type="text"/> | 4 |

Total must be 100%

Manure is removed at the end of each cycle ₅

Section 2 – Breeding Stock (*dry sows and nursing sows with litters*)

35. Do you have breeding stock (*dry and nursing sows, maiden gilts and boars*) on your farm operation?

Yes..... ₁ ↓ Please complete Section 2

No ₂ → Go to Section 3 (page 13)

36. In 2005, what was the average number of each type of breeding stock present on your farm operation at any one time?

How many nursing sows?

Nursing sows₁

How many dry sows?

Dry sows₂

How many maiden gilts?

Maiden gilts₃

How many boars?

Boars₄

| | |
|---|---|
| <p>37. Do you house your <u>breeding stock</u> in the same buildings(s) as the grower and finisher pigs?</p> <p>No <input type="checkbox"/>₂</p> <p>→ Answer questions 38 to 42</p> <p>Yes..... <input type="checkbox"/>₁</p> <p>↓ Go to question 43</p> | <p>38. How many separate buildings do you use for your <u>breeding stock</u>?</p> <p style="text-align: center;"><input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> Buildings₁</p> <hr/> <p>39. In 2005, what was the average temperature in the <u>nursing sow</u> building? <i>If there is more than one, answer for your largest.</i></p> <p>About the same as outdoors <input type="checkbox"/>₁</p> <p>Warmer than outdoors in summer by: <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> °C₂ -Or- <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> °F₃</p> <p>Cooler than outdoors in summer by: <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> °C₄ -Or- <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> °F₅</p> <p>Warmer than outdoors in winter by: <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> °C₆ -Or- <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> °F₇</p> <hr/> <p>40. What type of ventilation system do you have in the <u>nursing sow</u> building(s)?</p> <p><i>Check all that apply.</i></p> <p>Fans switched on automatically with computer <input type="checkbox"/>₁</p> <p>Fans switched on automatically with thermostat <input type="checkbox"/>₂</p> <p>Fans switched on manually <input type="checkbox"/>₃</p> <p>Passive ventilation (side curtains, free air or vent panels) <input type="checkbox"/>₄</p> <p>Other, <i>specify</i>: _____ <input type="checkbox"/>₅</p> <hr/> <p>41. Do you have 'pit fans', such as fans over a <u>sub-floor</u> or <u>separate manure pit</u>, placed to specifically draw air over the manure in the <u>breeding stock</u> building(s)?</p> <p>Yes <input type="checkbox"/>₁</p> <p>No..... <input type="checkbox"/>₂</p> <hr/> <p>42. Do you have filters on your vents or vent fans to control dust or odour emissions in your (<i>largest</i>) <u>breeding stock</u> building?</p> <p>Yes <input type="checkbox"/>₁</p> <p>No..... <input type="checkbox"/>₂</p> |
|---|---|

43. In 2005, what was the percentage (%) of crude protein content of the feed used for the nursing sow diet?

% crude protein₁

Don't know ₂

| | |
|--|--|
| <p>44. In 2005, did you feed commercial protein supplement to your <u>nursing sows</u>?</p> <p>Yes..... <input type="checkbox"/>₁ → Answer question 45</p> <p>No <input type="checkbox"/>₂ ↓ Go to question 46</p> | <p>45. What quantity of commercial protein supplement did you feed your <u>nursing sows</u> in a day?</p> <p style="text-align: center;"><input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> kg per day₁</p> <p style="text-align: center;">-----Or-----</p> <p style="text-align: center;"><input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> lb per day₂</p> <p>Don't know <input type="checkbox"/>₃</p> |
|--|--|

| | |
|--|--|
| <p>46. Did you offer creep feed to nursing piglets?</p> <p>Yes..... <input type="checkbox"/>_1 → Answer question 47</p> <p>No <input type="checkbox"/>_2 ↓ Go to question 48</p> | <p>47. What was the protein content of that creep feed?</p> <p><input type="text"/> <input type="text"/> % of protein₁</p> <p>Don't know <input type="checkbox"/>_2</p> |
|--|--|

48. In 2005, what was the percentage (%) of crude protein content of the feed used for the dry sow diet?

% crude protein₁

Don't know _2

| | |
|--|---|
| <p>49. In 2005, did you feed commercial protein supplement to your <u>dry sows</u>?</p> <p>Yes..... <input type="checkbox"/>_1 → Answer question 50</p> <p>No <input type="checkbox"/>_2 ↓ Go to question 51</p> | <p>50. What quantity of commercial protein supplement did you feed your <u>dry sows</u> in a day?</p> <p><input type="text"/> <input type="text"/> kg per day₁</p> <p>----Or----</p> <p><input type="text"/> <input type="text"/> lb per day₂</p> |
|--|---|

51. What is the main form of manure you collected from your nursing sows?

- Slurry or liquid manure _1
- Solid or semi-solid manure with little or no bedding _2
- Solid manure with a lot or some bedding _3
- Other, *specify*: _____ _4

| | |
|--|--|
| <p>52. What type of manure system(s) did you use in your <u>nursing sow</u> buildings? <i>Is it ...?</i></p> <p><i>Check all that apply.</i></p> <p>Litter (straw, sawdust, shavings) <input type="checkbox"/>_1</p> <p style="padding-left: 100px;">→ Answer questions 53 to 55</p> <p>Slats or other slurry-based system <input type="checkbox"/>_2</p> <p>↓ Go to question 56</p> <p>Automated removal farrowing crates..... <input type="checkbox"/>_3</p> <p>↓ Go to question 56</p> <p>Manual removal farrowing crates <input type="checkbox"/>_4</p> <p><i>(removed once at room turnover)</i></p> <p>↓ Go to question 56</p> <p>Farrowing rooms “all in all out” <input type="checkbox"/>_5</p> <p>↓ Go to question 56</p> <p>Other, <i>specify</i>: _____ <input type="checkbox"/>_6</p> <p>↓ Go to question 56</p> | <p>53. What type of litter did you use for your <u>nursing sows</u>?</p> <p>Straw or other crop residue..... <input type="checkbox"/>_1</p> <p>Sawdust, wood chips or shavings <input type="checkbox"/>_2</p> <p>Paper crumb or other forest product..... <input type="checkbox"/>_3</p> <p>Sand, gravel or other mineral product .. <input type="checkbox"/>_4</p> <p>Other, <i>specify</i>: _____ <input type="checkbox"/>_5</p> |
| | <p>54. How often did you add fresh bedding? Specify the usual number of days between one addition and the next.</p> <p><input type="text"/> <input type="text"/> <input type="text"/> Days₁</p> |

55. Approximately how much bedding do you use per year for all your nursing sows?

Cubic yards/metres₁

-----Or-----

Number of large bales₂

-----Or-----

Number of small bales₃

-----Or-----

Tonnes (metric)₄

-----Or-----

Tons (imperial)₅

-----Or-----

Other units₆

Specify units: _____ ₇

Don't know ₈

56. Do you use scrapers or slurry-based manure systems to clean the barn slats or floors in your nursing sow building? *If there is more than one building, answer for the largest.*

Yes ₁ → Answer questions 57 and 58

No. ₂ ↓ Go to question 59

57. How often did you wash down or scrape the slats or floors? *Specify the most common number of days between one cleaning and the next.*

Days₁

58. How often did you completely clean manure out of the building, including pumping out sub-floor pits? *Specify the most common number of days between one cleaning and the next.*

Days₁

59. What is the main form of manure you collected from your dry sows?

Slurry or liquid manure ₁

Solid or semi-solid manure with little or no bedding ₂

Solid manure with a lot or some bedding ₃

Other, specify: _____ ₄

| | |
|---|---|
| <p>60. What type of manure system(s) did you use in your <u>dry sow</u> building(s)? <i>Do you use ...?</i></p> <p><i>Check all that apply.</i></p> <p>Litter (straw, sawdust, shavings) <input type="checkbox"/>₁</p> <p>➔ Answer questions 61 to 63</p> <p>Slats or other slurry-based system <input type="checkbox"/>₂</p> <p>↓ Go to question 64</p> <p>Solid floor <input type="checkbox"/>₃</p> <p>↓ Go to question 64</p> <p>Pens “all in all out” <input type="checkbox"/>₄ (removed once at pen turnover)</p> <p>↓ Go to question 64</p> <p>Other, <i>specify</i>: _____ <input type="checkbox"/>₅</p> <p>↓ Go to question 64</p> | <p>61. What type of litter did you use for your dry sows?</p> <p>Straw or other crop residue..... <input type="checkbox"/>₁</p> <p>Sawdust, wood chips or shavings <input type="checkbox"/>₂</p> <p>Paper crumb or other forest product..... <input type="checkbox"/>₃</p> <p>Sand, gravel or other mineral product .. <input type="checkbox"/>₄</p> <p>Other, <i>specify</i>: _____ <input type="checkbox"/>₅</p> |
| | <p>62. How often did you add fresh bedding? <i>Specify the usual number of days between one addition and the next.</i></p> <p><input type="text"/> <input type="text"/> <input type="text"/> Days ₁</p> <hr/> <p>63. Approximately how much bedding do you use per year for all your <u>dry sows</u>?</p> <p><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Cubic yards/metres₁</p> <p>-----Or-----</p> <p><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Number of large bales₂</p> <p>-----Or-----</p> <p><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Number of small bales₃</p> <p>-----Or-----</p> <p><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Tonnes (metric)₄</p> <p>-----Or-----</p> <p><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Tons (imperial)₅</p> <p>-----Or-----</p> <p><input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Other units₆</p> <p><i>Specify units:</i></p> <p>_____ <input type="checkbox"/>₇</p> <p>Don't know <input type="checkbox"/>₈</p> |

| | |
|---|--|
| <p>64. Did you use scrapers or slurry-based manure systems to clean barn slats or floors of your <u>dry sow</u> building(s)?</p> <p>Yes <input type="checkbox"/> ₁ Answer questions 65 and 66</p> <p>No..... <input type="checkbox"/> ₂ ↓ Go to question 67</p> | <p>65. How often did you wash down or scrape the slats or floors? <i>Specify the most common number of days between one cleaning and the next.</i></p> <div style="border: 1px solid black; display: inline-block; width: 60px; height: 20px; margin-right: 5px;"></div> Days ₁ |
| | <p>66. How often did you completely clean manure out of the building, including pumping out sub-floor pits? <i>Specify the most common number of days between one cleaning and the next.</i></p> <div style="border: 1px solid black; display: inline-block; width: 60px; height: 20px; margin-right: 5px;"></div> Days ₁ |

67. In 2005, what was the percentage of all the manure removed from your dry and nursing sow building(s) during the following periods? *What percentage was removed in...?*

| | % |
|-----------------------------|--|
| April to May..... | <div style="border: 1px solid black; display: inline-block; width: 60px; height: 20px; margin-right: 5px;"></div> ₁ |
| June to August..... | <div style="border: 1px solid black; display: inline-block; width: 60px; height: 20px; margin-right: 5px;"></div> ₂ |
| September to November | <div style="border: 1px solid black; display: inline-block; width: 60px; height: 20px; margin-right: 5px;"></div> ₃ |
| December to March | <div style="border: 1px solid black; display: inline-block; width: 60px; height: 20px; margin-right: 5px;"></div> ₄ |

Total must be 100%

-----Or-----

Manure is removed after each cycle ₅

Section 3 – Solid manure handling and storage

Please refer to a normal year

68. Do you store solid manure from your pig operation?

Yes..... ₁ ↓ Please complete Section 3

No ₂ → Go to Section 4 (page 14)

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

Is it stored ...?

Less than 1 month..... ₁

From 1 to less than 6 months .. ₂

From 6 to less than 12 months ₃

12 months or longer..... ₄

Not stored over winter. ₅

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

Is it stored ...?

Less than 1 month..... ₁

From 1 to less than 6 months .. ₂

From 6 to less than 12 months ₃

12 months or longer..... ₄

Not stored over spring to fall..... ₅

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

- Uncovered outdoor piles or bunkers..... ₁
- Piles or bunkers covered with tarp or straw..... ₂
- Piles or bunkers under a roof .. ₃
- Other storage, specify: _____ ₄

| | |
|--|---|
| <p>72. Do you put any additives into the <u>solid manure</u>, to modify odour, pH or nutrient retention? Exclude litter.</p> <p>Yes <input type="checkbox"/>₁ → Answer question 73</p> <p>No <input type="checkbox"/>₂ ↓ Go to question 74</p> | <p>73. What types of additives do you use? Specify below:</p> <p>_____ 1</p> <p>_____ 2</p> |
|--|---|

74. How do you manage solid manure while it is in storage? *Is it ...?*

- Not moved or disturbed ₁
- Moved or disturbed once or twice
(e.g. to consolidate a pile or make room for more manure from the barn)..... ₂
- Routinely and thoroughly mixed or turned (e.g. to accelerate composting)..... ₃

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

What percentage is ...?

| | % | | | | |
|--|--|---------------------------------------|--|--|---|
| Spread on land (by you or someone else)..... | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> </tr> </table> | | | | 1 |
| | | | | | |
| Composted (then spread on land)..... | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> </tr> </table> | | | | 2 |
| | | | | | |
| Removed by contractor (don't know how it is used)..... | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> </tr> </table> | | | | 3 |
| | | | | | |
| Other | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> </tr> </table> | | | | 4 |
| | | | | | |
| Specify: _____ | | <input type="checkbox"/> ₅ | | | |

Total must be 100%

Section 4 – Land spreading of solid manure

Please refer to a normal year

76. Is solid manure from your pig operation spread on land (*spread on any land by the operator or by someone else*)?

- Yes..... ₁ ↓ Please complete Section 4
- No ₂ → Go to Section 5 (page 17)

77. 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
- 25% to 50% (such as with disc or chisel plow).. ₂
- More than 50% (such as with harrow).. ₃

78. Of the total amount of solid manure from your pig operation applied on land, what percentage is applied on: ...?

| | % | | | | |
|---|---|--|--|--|--------------------------------|
| Tilled crop land (<i>most crop residue tilled into soil</i>) | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 1 → Answer questions 79 and 80 |
| | | | | | |
| Reduced till crop land (<i>most crop residue retained on surface</i>) | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 2 → Answer question 81 |
| | | | | | |
| Land covered with perennial or forage crops | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 3 → Answer question 81 |
| | | | | | |
| Other | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 4 → Go to question 82 |
| | | | | | |
| Specify: _____ | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 5 |
| | | | | | |

Total must be 100%

If solid manure is applied on tilled crop land answer questions 79 and 80. Else go to question 81.

| <p>79. Of the total (<i>solid</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="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 10%; text-align: center;">%</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">1</td></tr> <tr><td>February</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">2</td></tr> <tr><td>March</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">3</td></tr> <tr><td>April</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">4</td></tr> <tr><td>May</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">5</td></tr> <tr><td>June</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">6</td></tr> <tr><td>July</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">7</td></tr> <tr><td>August</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">8</td></tr> <tr><td>September</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">9</td></tr> <tr><td>October</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">10</td></tr> <tr><td>November</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">11</td></tr> <tr><td>December</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">12</td></tr> </tbody> </table> <p style="text-align: center; margin-top: 5px;">Total must be 100%</p> <p>All year round at regular intervals <input type="checkbox"/> 13</p> | | % | | January | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 1 | February | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 2 | March | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 3 | April | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 4 | May | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 5 | June | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 6 | July | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 7 | August | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 8 | September | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 9 | October | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 10 | November | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 11 | December | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 12 | <p>80. For each period, how many days after spreading is the land usually first tilled?</p> <p>If different for different fields, give the most common. (Incorporated same day = 0 days).</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 10%; text-align: center;">Days</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">1</td></tr> <tr><td>February</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">2</td></tr> <tr><td>March</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">3</td></tr> <tr><td>April</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">4</td></tr> <tr><td>May</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">5</td></tr> <tr><td>June</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">6</td></tr> <tr><td>July</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">7</td></tr> <tr><td>August</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">8</td></tr> <tr><td>September</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">9</td></tr> <tr><td>October</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">10</td></tr> <tr><td>November</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">11</td></tr> <tr><td>December</td><td style="text-align: center;"> <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> </td><td style="text-align: right;">12</td></tr> </tbody> </table> <p>Not applicable (<i>manure is not incorporated into soil</i>) <input type="checkbox"/> 13</p> | | Days | | January | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 1 | February | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 2 | March | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 3 | April | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 4 | May | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 5 | June | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 6 | July | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 7 | August | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 8 | September | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 9 | October | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 10 | November | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 11 | December | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 12 |
|---|---|---|--|---------------|---|--|--|--|---|----------------|---|--|--|--|---|-------------|---|--|--|--|---|-------------|---|--|--|--|---|-----------|---|--|--|--|---|------------|---|--|--|--|---|------------|---|--|--|--|---|--------------|---|--|--|--|---|-----------------|---|--|--|--|---|---------------|---|--|--|--|----|----------------|---|--|--|--|----|----------------|---|--|--|--|----|---|--|------|--|---------------|---|--|--|--|---|----------------|---|--|--|--|---|-------------|---|--|--|--|---|-------------|---|--|--|--|---|-----------|---|--|--|--|---|------------|---|--|--|--|---|------------|---|--|--|--|---|--------------|---|--|--|--|---|-----------------|---|--|--|--|---|---------------|---|--|--|--|----|----------------|---|--|--|--|----|----------------|---|--|--|--|----|
| | % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| January | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| February | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| March | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| April | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| July | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| August | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| September | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| October | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| November | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| December | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| January | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| February | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| March | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| April | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| July | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| August | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| September | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| October | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| November | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| December | <table border="1" style="display: inline-table; width: 30px; height: 20px;"> <tr><td style="width: 10px;"></td><td style="width: 10px;"></td><td style="width: 10px;"></td></tr> </table> | | | | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

If solid manure is applied on reduced till, perennial or forage crop land answer question 81.

Else go to question 82.

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

| | % | | | | |
|---|---|--|--|--|----|
| January | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 1 |
| | | | | | |
| February | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 2 |
| | | | | | |
| March | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 3 |
| | | | | | |
| April | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 4 |
| | | | | | |
| May | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 5 |
| | | | | | |
| June | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 6 |
| | | | | | |
| July | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 7 |
| | | | | | |
| August | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 8 |
| | | | | | |
| September | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 9 |
| | | | | | |
| October | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 10 |
| | | | | | |
| November | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 11 |
| | | | | | |
| December | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> <td style="width: 33.33%; height: 20px;"></td> </tr> </table> | | | | 12 |
| | | | | | |
| Total must be 100% | | | | | |
| All year round at regular intervals <input type="checkbox"/> 13 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------------------------|---|----|---|----|---|---|---|---|---|-------------------------|--|------------------------|--|----|--|---|--|---|--|----|--|---|--|---|--|----|--|---|--|---|--|----|--|----|--|----|--|----|--|----|--|----|
| <p>82. In the past 3 years, has a chemical analysis of the <u>solid manure</u> been done for levels of Nitrogen, Phosphorus, Potassium, micronutrient or moisture content?</p> <p>Yes..... <input type="checkbox"/>1 → Answer question 83</p> <p>No <input type="checkbox"/>2 ↓ Go to question 84</p> | <p>83. 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).</p> <p>Enter range in first eight boxes and enter the decimal point if needed. Enter unit of measure in last box to right e.g.)</p> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;">0</td> <td style="border: 1px solid black; width: 20px; height: 20px;">.</td> <td style="border: 1px solid black; width: 20px; height: 20px;">4</td> <td style="border: 1px solid black; width: 20px; height: 20px;">5</td> <td style="font-size: 24px;">to</td> <td style="border: 1px solid black; width: 20px; height: 20px;">0</td> <td style="border: 1px solid black; width: 20px; height: 20px;">.</td> <td style="border: 1px solid black; width: 20px; height: 20px;">5</td> <td style="border: 1px solid black; width: 20px; height: 20px;">3</td> <td style="border: 1px solid black; width: 20px; height: 20px;">3</td> </tr> </table> <p>1 = Kilograms (kg) per (metric) tonne of manure 2 = Pounds (lb) per (imperial) ton of manure 3 = Percentage</p> <p>Lab results (numbers) of chemical analysis:</p> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="width: 40%;"><i>Moisture content</i></td> <td style="width: 20%;"></td> <td style="width: 40%;"><i>Unit of measure</i></td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="font-size: 24px;">to</td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="font-size: 24px;">1</td> <td></td> <td style="font-size: 24px;">2</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="font-size: 24px;">to</td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="font-size: 24px;">4</td> <td></td> <td style="font-size: 24px;">5</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="font-size: 24px;">to</td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="font-size: 24px;">7</td> <td></td> <td style="font-size: 24px;">8</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="font-size: 24px;">to</td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="font-size: 24px;">10</td> <td></td> <td style="font-size: 24px;">11</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="font-size: 24px;">to</td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="font-size: 24px;">13</td> <td></td> <td style="font-size: 24px;">14</td> </tr> </table> | 0 | . | 4 | 5 | to | 0 | . | 5 | 3 | 3 | <i>Moisture content</i> | | <i>Unit of measure</i> | | to | | 1 | | 2 | | to | | 4 | | 5 | | to | | 7 | | 8 | | to | | 10 | | 11 | | to | | 13 | | 14 |
| 0 | . | 4 | 5 | to | 0 | . | 5 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Moisture content</i> | | <i>Unit of measure</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|--|---|
| <p>84. Do you usually spread (<i>solid</i>) manure at a particular time of day?</p> <p>Yes..... <input type="checkbox"/>₁ → Answer question 85</p> <p>No, it is spread whenever possible... <input type="checkbox"/>₂</p> <p>↓ Go to question 86</p> | <p>85. Is it usually spread between: ...?</p> <p>10 a.m. and 6 p.m. <input type="checkbox"/>₁</p> <p>6 p.m. and 10 a.m. <input type="checkbox"/>₂</p> |
|--|---|

86. 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*) ₁
- Brisk or strong, say about 5 to 9 km/hour (*a flag would fly straight out at this wind speed*) ₂
- Any speed, the job gets done whenever it is possible ₃

Section 5 - Handling and storage of liquid manure

Please refer to a normal year

87. Do you store liquid manure (*slurry*) from your pig operation?
- Yes..... ₁ ↓ Please complete Section 5
- No ₂ → Go to Section 6 (page 19)
88. How long do you usually store liquid manure collected over **winter**? (*December to March*)
- Is it stored ...?*
- Less than 1 month ₁
- From 1 to less than 6 months .. ₂
- From 6 to less than 12 months ₃
- 12 months or longer..... ₄
- Not stored over winter. ₅
89. How long do you usually store liquid manure collected from **spring to fall**? (*April to November*)
- Is it stored ...?*
- Less than 1 month ₁
- From 1 to less than 6 months .. ₂
- From 6 to less than 12 months ₃
- 12 months or longer..... ₄
- Not stored over spring to fall.... ₅

| | |
|--|--|
| <p>90. Do you separate solids from liquid manure (<i>slurry</i>)?</p> <p>Yes..... <input type="checkbox"/>₁ → Go to question 91</p> <p>No <input type="checkbox"/>₂ ↓ Go to question 92</p> <p>Not applicable <input type="checkbox"/>₃ ↓ Go to question 92</p> | <p>91. What do you use to separate solids from liquid manure?</p> <p>Liquid drawn off top of tank <input type="checkbox"/>₁</p> <p>Settling ponds or weeping walls <input type="checkbox"/>₂</p> <p>Screens <input type="checkbox"/>₃</p> <p>Presses (belt, screw or other) <input type="checkbox"/>₄</p> <p>Other, specify: _____ <input type="checkbox"/>₅</p> |
|--|--|

92. Which of the following describes the main (or largest) liquid manure storage space you used?
Is it a ...?

- Tank above ground..... ₁
- Lined or cement pit ₂
- Lagoon or dugout in ground ₃
- Other storage, *specify:* _____ ₄

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

- Open, so rain might get in ₁
- Covered with a roof ₂

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

- A floating crust formed by the manure.. ₁
- A floating cover such as a floating lid or tarp ₂
- A floating cover such as straw ₃
- No floating cover or crust..... ₄

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

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

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

Check all that apply.

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

97. What percentage of liquid manure (from your pig operation) is handled through each method you use?

What percentage is ...?

| | % | | | |
|--|---|--|--|--|
| Spread on land (by you or someone else)..... | <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <input type="checkbox"/> ₁ | | | |
| | | | | |
| Removed by contractor (don't know how it is used)..... | <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <input type="checkbox"/> ₂ | | | |
| | | | | |
| Other | <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <input type="checkbox"/> ₃ | | | |
| | | | | |
| <i>Specify:</i> _____ | <input type="checkbox"/> ₄ | | | |

Total must be 100%

| | |
|---|--|
| <p>98. Do you put any additives into the <u>liquid manure</u>, to modify odour, pH or nutrient retention? Exclude litter.</p> <p>Yes <input type="checkbox"/>₁ → Answer question 99</p> <p>No <input type="checkbox"/>₂ ↓ Go to question 100</p> | <p>99. What types of additives do you use?</p> <p>_____ 1</p> <p>_____ 2</p> |
|---|--|

100. 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).

feet₁ by feet₂

-----Or-----

metres₃ by metres₄

-----Or-----

(Box 5)
 Diameter in feet₅

(Box 6)
 Diameter in metres₆

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

feet₁ -----Or----- metres₂

Section 6 – Land spreading of liquid manure (slurry)

Please refer to a normal year

102. Is liquid manure (slurry) from your pig operation usually spread on land (spread on any land by the operator or by someone else)?

Yes..... ₁ ↓ Please complete Section 6

No ₂ → Go to Section 7 (page 22)

103. Of the total amount of liquid manure from your pig 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"/> | % ₁ | → Answer questions 104 and 105 |
| Reduced till crop land (most crop residue retained on surface)..... | <input type="text"/> <input type="text"/> <input type="text"/> | ₂ | → Answer question 106 |
| Land covered with perennial or forage crops..... | <input type="text"/> <input type="text"/> <input type="text"/> | ₃ | → Answer question 106 |
| Other..... | <input type="text"/> <input type="text"/> <input type="text"/> | ₄ | → Go to question 107 |

Specify: _____ ₅

****If applied on tilled land answer questions 104 and 105. Else go to question 106****

| <p>104. Of the total (<i>liquid</i>) manure applied on tilled soil, what percentage is usually applied in each month?</p> <p>What percentage is applied in ... ?</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr><td>January</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>1</td></tr> <tr><td>February</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>2</td></tr> <tr><td>March</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>3</td></tr> <tr><td>April</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>4</td></tr> <tr><td>May</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>5</td></tr> <tr><td>June</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>6</td></tr> <tr><td>July</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>7</td></tr> <tr><td>August</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>8</td></tr> <tr><td>September</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>9</td></tr> <tr><td>October</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>10</td></tr> <tr><td>November</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>11</td></tr> <tr><td>December</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>12</td></tr> </tbody> </table> <p style="text-align: center;">Total must be 100%</p> <p>All year round at regular intervals <input type="checkbox"/> ₁₃</p> | % | January | <input type="text"/> <input type="text"/> <input type="text"/> | 1 | February | <input type="text"/> <input type="text"/> <input type="text"/> | 2 | March | <input type="text"/> <input type="text"/> <input type="text"/> | 3 | April | <input type="text"/> <input type="text"/> <input type="text"/> | 4 | May | <input type="text"/> <input type="text"/> <input type="text"/> | 5 | June | <input type="text"/> <input type="text"/> <input type="text"/> | 6 | July | <input type="text"/> <input type="text"/> <input type="text"/> | 7 | August | <input type="text"/> <input type="text"/> <input type="text"/> | 8 | September | <input type="text"/> <input type="text"/> <input type="text"/> | 9 | October | <input type="text"/> <input type="text"/> <input type="text"/> | 10 | November | <input type="text"/> <input type="text"/> <input type="text"/> | 11 | December | <input type="text"/> <input type="text"/> <input type="text"/> | 12 | <p>105. For each period, how many days after spreading is the land usually first tilled? If different for different fields, give the most common (Less than 2 hours = 0 days. From 2 to 24 hours = 0.5 days).</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Days</th> </tr> </thead> <tbody> <tr><td>January</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>1</td></tr> <tr><td>February</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>2</td></tr> <tr><td>March</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>3</td></tr> <tr><td>April</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>4</td></tr> <tr><td>May</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>5</td></tr> <tr><td>June</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>6</td></tr> <tr><td>July</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>7</td></tr> <tr><td>August</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>8</td></tr> <tr><td>September</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>9</td></tr> <tr><td>October</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>10</td></tr> <tr><td>November</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>11</td></tr> <tr><td>December</td><td><input type="text"/><input type="text"/><input type="text"/></td><td>12</td></tr> </tbody> </table> <p>Not applicable (<i>manure is not incorporated into soil</i>) <input type="checkbox"/> ₁₃</p> | Days | January | <input type="text"/> <input type="text"/> <input type="text"/> | 1 | February | <input type="text"/> <input type="text"/> <input type="text"/> | 2 | March | <input type="text"/> <input type="text"/> <input type="text"/> | 3 | April | <input type="text"/> <input type="text"/> <input type="text"/> | 4 | May | <input type="text"/> <input type="text"/> <input type="text"/> | 5 | June | <input type="text"/> <input type="text"/> <input type="text"/> | 6 | July | <input type="text"/> <input type="text"/> <input type="text"/> | 7 | August | <input type="text"/> <input type="text"/> <input type="text"/> | 8 | September | <input type="text"/> <input type="text"/> <input type="text"/> | 9 | October | <input type="text"/> <input type="text"/> <input type="text"/> | 10 | November | <input type="text"/> <input type="text"/> <input type="text"/> | 11 | December | <input type="text"/> <input type="text"/> <input type="text"/> | 12 |
|--|--|---------------|--|---|----------------|--|---|-------------|--|---|-------------|--|---|-----------|--|---|------------|--|---|------------|--|---|--------------|--|---|-----------------|--|---|---------------|--|----|----------------|--|----|----------------|--|----|---|------|---------------|--|---|----------------|--|---|-------------|--|---|-------------|--|---|-----------|--|---|------------|--|---|------------|--|---|--------------|--|---|-----------------|--|---|---------------|--|----|----------------|--|----|----------------|--|----|
| % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| January | <input type="text"/> <input type="text"/> <input type="text"/> | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| February | <input type="text"/> <input type="text"/> <input type="text"/> | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| March | <input type="text"/> <input type="text"/> <input type="text"/> | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| April | <input type="text"/> <input type="text"/> <input type="text"/> | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | <input type="text"/> <input type="text"/> <input type="text"/> | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | <input type="text"/> <input type="text"/> <input type="text"/> | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| July | <input type="text"/> <input type="text"/> <input type="text"/> | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| August | <input type="text"/> <input type="text"/> <input type="text"/> | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| September | <input type="text"/> <input type="text"/> <input type="text"/> | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| October | <input type="text"/> <input type="text"/> <input type="text"/> | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| November | <input type="text"/> <input type="text"/> <input type="text"/> | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| December | <input type="text"/> <input type="text"/> <input type="text"/> | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| January | <input type="text"/> <input type="text"/> <input type="text"/> | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| February | <input type="text"/> <input type="text"/> <input type="text"/> | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| March | <input type="text"/> <input type="text"/> <input type="text"/> | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| April | <input type="text"/> <input type="text"/> <input type="text"/> | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | <input type="text"/> <input type="text"/> <input type="text"/> | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | <input type="text"/> <input type="text"/> <input type="text"/> | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| July | <input type="text"/> <input type="text"/> <input type="text"/> | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| August | <input type="text"/> <input type="text"/> <input type="text"/> | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| September | <input type="text"/> <input type="text"/> <input type="text"/> | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| October | <input type="text"/> <input type="text"/> <input type="text"/> | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| November | <input type="text"/> <input type="text"/> <input type="text"/> | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| December | <input type="text"/> <input type="text"/> <input type="text"/> | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

****If applied on reduced till or perennial crop land, answer question 106. Else go to question 107****

106. Of the total (*liquid*) manure applied on reduced till or perennial crop land, what percentage is applied in each month:

| % | | |
|-----------------|--|----|
| January | <input type="text"/> <input type="text"/> <input type="text"/> | 1 |
| February | <input type="text"/> <input type="text"/> <input type="text"/> | 2 |
| March | <input type="text"/> <input type="text"/> <input type="text"/> | 3 |
| April | <input type="text"/> <input type="text"/> <input type="text"/> | 4 |
| May | <input type="text"/> <input type="text"/> <input type="text"/> | 5 |
| June | <input type="text"/> <input type="text"/> <input type="text"/> | 6 |
| July | <input type="text"/> <input type="text"/> <input type="text"/> | 7 |
| August | <input type="text"/> <input type="text"/> <input type="text"/> | 8 |
| September | <input type="text"/> <input type="text"/> <input type="text"/> | 9 |
| October | <input type="text"/> <input type="text"/> <input type="text"/> | 10 |
| November | <input type="text"/> <input type="text"/> <input type="text"/> | 11 |
| December | <input type="text"/> <input type="text"/> <input type="text"/> | 12 |

Total must be 100%

All year round at regular intervals ₁₃

| | |
|--|--|
| <p>107. Do you usually land spread (<i>liquid</i>) manure at a particular time of day?</p> <p>Yes.....<input type="checkbox"/>_1</p> <p>→ Answer question 108</p> <p>No, manure is spread whenever possible<input type="checkbox"/>_2</p> <p>↓ Go to question 109</p> | <p>108. Is it usually spread between: ...?</p> <p>10 a.m. and 6 p.m.<input type="checkbox"/>_1</p> <p>6 p.m. and 10 a.m.<input type="checkbox"/>_2</p> |
|--|--|

109. What best describes the consistency of the liquid manure on your operation?

- Runny like water_1
- Pea soup....._2
- Toothpaste....._3

110. 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 | □ | □ | □ | 1 |
| Narrow bands on soil surface such as with drop hoses or a sleighfoot | □ | □ | □ | 2 |
| Shallow injected, where some of the manure remains on the soil surface | □ | □ | □ | 3 |
| Deep injected, where little of the manure remains on the soil surface | □ | □ | □ | 4 |
| Irrigated (e.g. with a pivot gun) | □ | □ | □ | 5 |
| Other | □ | □ | □ | 6 |
| Specify: _____ | | | | 7 |

Total must be 100%

| | |
|---|---|
| <p>111. Does the method you use to spread <u>liquid manure</u> change from season to season?</p> <p>Yes<input type="checkbox"/>_1 → Answer question 112</p> <p>No, same method used all year <input type="checkbox"/>_2</p> <p>↓ Go to question 113</p> | <p>112. Do you usually ...?</p> <p>Inject in spring or fall, broadcast in summer<input type="checkbox"/>_1</p> <p>Other, specify: _____<input type="checkbox"/>_2</p> |
|---|---|

113. 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*)_1
- Brisk or strong, say about 5 to 9 km/hour (*a flag would fly straight out at this wind speed*)_2
- Any speed, the job gets done whenever it is possible_3

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|------------------------|----|----|---|----|---|---|--|---|-------------------------|--|--|--|------------------------|--|--|--|--|--|--|----|--|--|--|--|--|--|---|--|--|--|--|---|--|--|---|--|--|---------------------------|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|---|--|--|--|--|---|--|--|---|--|--|---------------------------|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|---|--|--|--|--|---|--|--|---|--|--|----------------------------------|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|----|--|--|--|--|----|--|--|----|--|--|-----------------------|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|----|--|--|--|--|----|--|--|----|--|--|
| <p>114. <u>In the past 3 years</u>, has a chemical analysis of the <u>liquid manure</u> been done for levels of Nitrogen, Phosphorus, Potassium, micronutrient or moisture content?</p> <p>Yes..... <input type="checkbox"/> ₁ → Answer question 115</p> <p>No <input type="checkbox"/> ₂ ↓ Go to question 116</p> | <p>115. 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).</p> <p>Unit of measure codes:</p> <p>1 = Kilograms (kg) per (metric) tonne of manure 2 = Pounds (lb) per (imperial) ton of manure 3 = Percentage</p> <p>Enter range in first eight boxes and enter the decimal point if needed. Enter unit of measure in last box to right e.g.:</p> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px;">0</td> <td style="border: 1px solid black; width: 20px;">.</td> <td style="border: 1px solid black; width: 20px;">4</td> <td style="border: 1px solid black; width: 20px;">5</td> <td style="font-size: 2em;">to</td> <td style="border: 1px solid black; width: 20px;">0</td> <td style="border: 1px solid black; width: 20px;">.</td> <td style="border: 1px solid black; width: 20px;">5</td> <td style="border: 1px solid black; width: 20px;">3</td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;">3</td> </tr> </table> <p>Lab results (numbers) of chemical analysis:</p> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td colspan="4"><i>Moisture content</i></td> <td colspan="3"><i>Unit of measure</i></td> </tr> <tr> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="font-size: 2em;">to</td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> </tr> <tr> <td style="font-size: 0.8em;">1</td> <td></td> <td></td> <td></td> <td></td> <td style="font-size: 0.8em;">2</td> <td></td> <td></td> <td style="font-size: 0.8em;">3</td> <td></td> <td></td> </tr> <tr> <td colspan="4"><i>Dry matter content</i></td> <td colspan="3"></td> </tr> <tr> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="font-size: 2em;">to</td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> </tr> <tr> <td style="font-size: 0.8em;">4</td> <td></td> <td></td> <td></td> <td></td> <td style="font-size: 0.8em;">5</td> <td></td> <td></td> <td style="font-size: 0.8em;">6</td> <td></td> <td></td> </tr> <tr> <td colspan="4"><i>Total Nitrogen (N)</i></td> <td colspan="3"></td> </tr> <tr> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="font-size: 2em;">to</td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> </tr> <tr> <td style="font-size: 0.8em;">7</td> <td></td> <td></td> <td></td> <td></td> <td style="font-size: 0.8em;">8</td> <td></td> <td></td> <td style="font-size: 0.8em;">9</td> <td></td> <td></td> </tr> <tr> <td colspan="4"><i>Ammonium (NH₄)</i></td> <td colspan="3"></td> </tr> <tr> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="font-size: 2em;">to</td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> </tr> <tr> <td style="font-size: 0.8em;">10</td> <td></td> <td></td> <td></td> <td></td> <td style="font-size: 0.8em;">11</td> <td></td> <td></td> <td style="font-size: 0.8em;">12</td> <td></td> <td></td> </tr> <tr> <td colspan="4"><i>Phosphorus (P)</i></td> <td colspan="3"></td> </tr> <tr> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="font-size: 2em;">to</td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> <td style="border: 1px solid black; width: 20px;"> </td> </tr> <tr> <td style="font-size: 0.8em;">13</td> <td></td> <td></td> <td></td> <td></td> <td style="font-size: 0.8em;">14</td> <td></td> <td></td> <td style="font-size: 0.8em;">15</td> <td></td> <td></td> </tr> </table> | 0 | . | 4 | 5 | to | 0 | . | 5 | 3 | | 3 | <i>Moisture content</i> | | | | <i>Unit of measure</i> | | | | | | | to | | | | | | | 1 | | | | | 2 | | | 3 | | | <i>Dry matter content</i> | | | | | | | | | | | to | | | | | | | 4 | | | | | 5 | | | 6 | | | <i>Total Nitrogen (N)</i> | | | | | | | | | | | to | | | | | | | 7 | | | | | 8 | | | 9 | | | <i>Ammonium (NH₄)</i> | | | | | | | | | | | to | | | | | | | 10 | | | | | 11 | | | 12 | | | <i>Phosphorus (P)</i> | | | | | | | | | | | to | | | | | | | 13 | | | | | 14 | | | 15 | | |
| 0 | . | 4 | 5 | to | 0 | . | 5 | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Moisture content</i> | | | | <i>Unit of measure</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | 2 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Dry matter content</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | 5 | | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Total Nitrogen (N)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | 8 | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Ammonium (NH₄)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | 11 | | | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Phosphorus (P)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | 14 | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Section 7 - Odour management and nutrient conservation

116. At what stage of your pig 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..... ₁
- Land spreading..... ₂
- Agitation of manure ₃
- Mixing or composting ₄
- Other, specify: _____ ₅
- No differences throughout the year ₆

If no differences in odour throughout the year, go to question 119.

117. How many times per year is the odour of manure from your (pig) operation stronger than it is usually?

| | | | |
|--|--|--|----------------------|
| | | | Time(s) ₁ |
|--|--|--|----------------------|

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

| | | | |
|--|--|--|---------------------|
| | | | Day(s) ₁ |
|--|--|--|---------------------|

119. What is the vegetation within 300 metres (1000 feet) to the **north and west** of your barns?

Check all that apply.

- Nothing tall, there are no trees or tall shrubs (nothing taller than corn, for example) ₁
- Shelterbelt with leafed trees that shed leaves in fall ₂
- Shelterbelt with evergreen trees ₃
- Woodlot or forest ₄

120. What is the vegetation within 300 metres (1000 feet) to the **south and east** of your barns?

Check all that apply.

- Nothing tall, there are no trees or tall shrubs (nothing taller than corn, for example) ₁
- Shelterbelt with leafed trees that shed leaves in fall ₂
- Shelterbelt with evergreen trees ₃
- Woodlot or forest ₄

Agreement to share data

Thank you for taking the time to participate in our survey. In order to avoid duplication, Statistics Canada has entered into a data sharing agreement under Section 12 of the Statistics Act with Agriculture and Agri-Food Canada to share responses from this survey. The Department will not be given your name, address or other identifiers and is required to keep the information confidential and use it only for statistical and research purposes.

121. Do you agree to share this information with Agriculture and Agri-Food Canada?

Yes ₁

No ₂

122. Would you like to receive a summary report of the survey results?

- Yes..... ₁ ↓ Answer question 123
- No ₂ ↓ Go to section 8

123. What is your e-mail address? Your address will not be shared with any government department.

Enter "MAIL" if the respondent prefers to receive the report by mail.

| | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Please indicate end time of interview:

| | | | | |
|---|--|---|--|---|
| | | : | | |
| 1 | | | | 2 |

