

Thank you for agreeing to serve on the Delphi Panel that will be forecasting future demand for **Food Supply Veterinarians in Mixed Food Animal Practice in Rural Settings**. We are now ready to start the Delphi Forecasting process. You are in a group of high-quality experts who will provide interesting insights about the future of the veterinary profession in this sector. I hope you will find the Delphi process an interesting learning experience.

Remember that this Delphi forecasting study is a three-round process. Complete the web-based survey by going to the link at the bottom of this email before August 4th is the first round. The 2nd round will involve (1) reading my brief summary of the 1st survey results and (2) completing a 2nd survey that will be tailored to reflect your inputs on the 1st round. The third and final round will follow that same pattern. After the third round, I will provide a final summary to all who complete the process.

At the end of this email, there is a link to the 1st survey. It will take at least 20-25 minutes to complete and long replies to the several “open-ended” questions could add additional time.

You may find it helpful to print a copy of your questionnaire before you hit the “Submit” button at the end of the questionnaire. This will allow you to look over your own 1st round estimates and comments as you review the general summary prior to completing the 2nd and 3rd questionnaire. On rare occasions submitted surveys have gotten lost in cyberspace and not reached me. If you have a printed copy and this happens, you can just fax in your replies. (Printing out the completed questionnaire in “Landscape” format works best as printing it in “Portrait” will cut-off the right-side. To do this, you may need to set your “Preferences” to “Landscape” in the Print Command. That is what works on my computer.)

Please do not use the “Enter” key as it may prematurely submit your survey. If you do that just use the arrow key at the top and go back and complete the survey.

Thank you for your time and effort on this important project.

Sincerely,

Dr. J. Bruce Prince
Professor of Management
Kansas State University
785-532-7459

Click on this link to go to the web-based 1st questionnaire for the Mixed-Rural Panel:
<http://survey.cba.ksu.edu/prince/mixed-rural1/index.htm>

Please complete this questionnaire by August 4th

18. Growing need to track animals entering the food chain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. Constraints on non-DVMs giving prescription drugs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20. Slow adoption of new technologies by veterinarians	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21. Move to larger sized producer operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22. Client use of veterinary herd management services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23. Client concerns about veterinary service costs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24. Lack of veterinarian's practice management & business skill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25. Part-time farmers needing more veterinary services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2. Please describe additional trends that you believe will substantially INCREASE the demand for Food Supply Veterinarians in Mixed - Rural Practices: (Note that the space will expand as you type.)

3. Please describe additional trends that you believe will substantially DECREASE the demand for Food Supply Veterinarians in Mixed - Rural Practices:

4. Please clarify or explain any of your answers to the previous questions *if needed*.

II. Future DEMAND Estimates

In this section, we ask you to estimate the future demand for Food Supply Veterinarians in Mixed - Rural Practices. Assume that the current trends will continue on their present course and that there will NOT be any catastrophic events.

5. Will the demand for Mixed - Rural Practice food supply veterinarians increase or decrease over the next 12 years? (click on the best answer)

- Decrease a Great Deal
- Decrease Moderately
- Decrease Slightly
- Stay Exactly the Same
- Increase Slightly
- Increase Moderately
- Increase a Great Deal

6. What is your "Most Likely" estimate of the percentage *increase or decrease* in future demand for Mixed - Rural Practices food supply veterinarians?

For example, if you expect to see a 3% *increase* in demand as your "most likely" estimate, then select "3 (increase)" from the drop-down menu. If you see a 4% *decrease* in demand, then select "-4 (decrease)". Do this for each time period.

My "Most Likely" estimate of future DEMAND for Mixed - Rural Practice Food Supply Veterinarians is that...

1. **One year from the fall of 2004** there will be a **percentage change** (increase or decrease) of:

[CLICK TO CHOOSE](#) 

2. **between the fall of 2005 and fall of 2007** there will be a **percentage change** (increase or decrease) of:

[CLICK TO CHOOSE](#) 

3. **between the fall of 2007 and fall of 2010** there will be a **percentage change** (increase or decrease) of:

[CLICK TO CHOOSE](#) 

4. **between the fall of 2010 and fall of 2013** there will be a **percentage change** (increase or decrease) of:

[CLICK TO CHOOSE](#) 

5. **between the fall of 2013 and fall of 2016** there will be a **percentage change** (increase or decrease) of:


[CLICK TO CHOOSE](#) 

7. What is your estimate of the minimum "reasonable range" around the demand estimates provided above that you think will capture actual demand? For example, if you think that your estimate "plus or minus 1" is the minimum reasonable range, you should select the second choice . This would indicate that, if you estimated a +3% increase in demand, you are reasonably confident that actual demand will be between +2 and +4%.


I am reasonably confident that actual demand will be within the "range" defined by my estimates and:

- plus or minus .5 or less
- plus or minus 1
- plus or minus 2
- plus or minus 3
- plus or minus 4
- plus or minus 5
- plus or minus 6
- plus or minus 7
- plus or minus 8 or more

8. Please use the space below to identify the sub-areas (roles, responsibilities, skill areas, clients served, etc.) where there will be a substantial future INCREASE in the demand beyond the general pattern estimated above. (Note that the space will expand as you type.)



9. Please use the space below to identify the sub-areas (roles, responsibilities, skill areas, clients served, etc.) where there will be a substantial future DECREASE in the demand beyond the general pattern estimated above.



10. Please clarify or explain any of your answers to the previous questions in this section *if needed*.

7. Lack of positive role models in veterinary food supply practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Poor income opportunities in food supply careers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Lack of cultural and recreational opportunities in rural areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Lack of spousal career options in rural areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Limited life style and career opportunities in rural areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Federal and/or State/Provincial budgetary constraints	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. High debt load of veterinary school graduates	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Expected high number of food supply veterinarians retiring in the near future	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Limited capacity of existing veterinary colleges in the US and/or Canada	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16. Perceived lack of demand for food animal skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17. Requirement for education beyond a DVM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. Please describe additional trends that you believe will substantially INCREASE the available SUPPLY of Mixed - Rural Practices Food Supply Veterinarians: (Note that the space will expand as you type.)

13. Please describe additional trends that you believe will substantially DECREASE the available SUPPLY of Mixed - Rural Practices Food Supply Veterinarians:

14. Please clarify or explain any of your answers to the previous questions in this section *if needed*.

IV. Projected Shortage or Surplus of Veterinarians

Will there be a shortage or surplus of food supply veterinarians in Mixed - Rural Practice Careers in the future? In thinking about the future assume that current trends will continue without any major change and that there will NOT be any catastrophic events.

15. Will there be a *surplus or shortage* of food supply veterinarians in Mixed - Rural Practice Careers available to fill expected vacancies over the next 12 years? (Click on the best answer)

There will be a...

- ... *large surplus*
- ... *surplus*

- ... *slight surplus*
- ... *very close match*
- ... *slight shortage*
- ... *shortage*
- ... *large shortage*

16. What is your "Most Likely" percentage estimate of the *shortage* (not enough veterinarians to meet the demand for their services) or *surplus* of food supply veterinarians Mixed - Rural Practice Careers? Provide an estimate for each time period.

For example, if you see a 3% *shortage* of available veterinarians relative to demand as your "most likely" estimate, then click on "-3 (shortage)" from the drop-down menu. If you see a 4% *surplus* of available veterinarians relative to demand as your "most likely" estimate, then click on "4 (surplus)" from the drop-down menu.

My "Most Likely" estimate of *shortage or surplus* of Mixed - Rural Practices Careers Food Supply Veterinarians is that...

1. ... ***in the fall of 2004*** the available supply differed from demand by this percentage:

CLICK TO CHOOSE

2. ... ***in the fall of 2005*** the available supply will differ from the *expected* demand by this percentage:

CLICK TO CHOOSE

3. ... **between the fall of 2005 and fall of 2007** the available supply will differ from the *expected* demand by this percentage:

CLICK TO CHOOSE

4. ... **between the fall of 2007 and fall of 2010** the available supply will differ from the *expected* demand by this percentage:

CLICK TO CHOOSE

5. ... **between the fall of 2010 and fall of 2013** the available supply will differ from the *expected* demand by this percentage:

CLICK TO CHOOSE

6. ... **between the fall of 2013 and fall of 2016** the available supply will differ from the *expected* demand by this percentage:


CLICK TO CHOOSE 

17. What is your estimate of the minimum "reasonable range" around the demand estimates provided above that you think will capture actual demand? For example, if you think that your estimate "plus or minus 1" is the minimum reasonable range, you should select the second choice.

I am reasonably confident that actual demand will be within the "range" defined by my estimates and:

- plus or minus .5 or less
- plus or minus 1
- plus or minus 2
- plus or minus 3
- plus or minus 4
- plus or minus 5
- plus or minus 6
- plus or minus 7
- plus or minus 8 or more

18. Please use the space provided below as needed to clarify or explain your predictions in this section *if needed*.



V. Background Information

Please provide some basic background information about yourself. Note that all answers will be treated confidentially. The results of this survey will be aggregated so that individuals will not be identifiable. We need to know your name so that we can track estimates over all three surveys.

19. What is your name?

20. What is your current job title?

21. Number of years of experience in the Mixed - Rural Practice Food Supply Veterinary Medicine area:

(Click here to choose)

22. What Veterinary College did you graduate from?

- Auburn University College of Veterinary Medicine
- University of California-Davis School of Veterinary Medicine
- Colorado State University College of Veterinary Medicine
- Cornell University College of Veterinary Medicine
- University of Florida College of Veterinary Medicine
- University of Georgia College of Veterinary Medicine
- University of Illinois College of Veterinary Medicine
- Iowa State University College of Veterinary Medicine
- Kansas State University College of Veterinary Medicine
- Louisiana State University School of Veterinary Medicine
- Michigan State University College of Veterinary Medicine
- University of Minnesota College of Veterinary Medicine
- Mississippi State University College of Veterinary Medicine

- University of Missouri College of Veterinary Medicine
- North Carolina State College of Veterinary Medicine
- Ohio State University College of Veterinary Medicine
- Oklahoma State University College of Veterinary Medicine
- Oregon State University College of Veterinary Medicine
- University of Pennsylvania School of Veterinary Medicine
- Purdue University School of Veterinary Medicine
- University of Tennessee College of Veterinary Medicine
- Texas A&M University College of Veterinary Medicine
- Tufts University School of Veterinary Medicine
- Tuskegee University School of Veterinary Medicine
- Virginia-Maryland Regional College of Veterinary Medicine
- Washington State University College of Veterinary Medicine
- University of Wisconsin College of Veterinary Medicine
- Western University of Health Sciences College of Veterinary Medicine
- University of Guelph, Ontario Veterinary College
- University of Montreal Faculty of Veterinary Medicine
- University of Prince Edward Island, Atlantic Veterinary College
- University of Saskatchewan Western College of Veterinary Medicine
- Other

23. What year did you graduate from Veterinary medical school?

(Click here to choose)


24. Please list the university and date of any graduate degrees (other than your DVM degree) and any Board Certifications and dates:



25. What is the two letter code of the State or Province where you live? (Note that Canadian Provinces are at the end of the list.)

(Click here to choose)

26. What is your age?

(Click here to choose) 

27. What is your gender?

- Female
- Male

28. Please check the professional associations that you are a member of:

- American Veterinary Medical Association (AVMA)
- Canadian Veterinary Medical Association (CVMA)
- American Association of Bovine Practitioners (AABP)
- American Association of Small Ruminant Practitioners (AASRP)
- American Association of Swine Veterinarians (AASV)
- Association of American Veterinary Medical Colleges (AAVMC)
- Academy of Veterinary Consultants (AVC)
- National Association of Federal Veterinarians (NAFV)
- American Association of Avian Pathologists (AAAP)
- A State or Provincial Veterinary Association
- U.S. Animal Health Association

29. Please list other significant professional associations of which you are a member.



30. Where are you *primarily* employed (click on one)?

- United States
- Canada

31. What percentage of your work time is spent on food supply tasks (versus other areas of veterinary medicine)? (Skip if you are not a veterinarian)

(Click here to choose) [\[\]](#)

32. How would you rate your expertise in making the future forecasts requested in this survey?

	Strongly Agree	Agree	Somewhat Agree	Neither	Somewhat Disagree	Disagree	Strongly Disagree
1. I have complete confidence in the estimates I have provided.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. I have an excellent background for making future forecasts in the Food Supply Veterinary Medicine area.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. I understand the issues of supply and demand for Food Supply Veterinary Medicine much better than most.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Other experts have high confidence in my future projections and views.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

33. As you answered questions about future demand and supply, which country was your *primary* focus (click on one)?

- United States
- Canada

VI. Thank You

Thank you for completing this survey. The responses of all panel experts will be analyzed and a summary of the results will be included with the second survey.

If you have any questions, please feel free to contact Dr. Bruce Prince at 785-532-7459 or jbprince@ksu.edu.

Please click on the Submit Survey button now.

Submit Survey

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