

Thank you for completing the 1<sup>st</sup> survey in the Delphi forecasting process on the future demand for **Food Supply Veterinarians in Mixed Practices in Rural Settings**. My analysis of the 1<sup>st</sup> round is complete and we are ready to start the 2<sup>nd</sup> round. A short feedback report is provided via a link at the bottom. This notes general patterns seen in the 1<sup>st</sup> survey and provides instructions for interpreting the more specific data results incorporated into the 2<sup>nd</sup> survey. The link to that 2<sup>nd</sup> survey is also provided below. *Please try to complete the 2nd survey by **September 15th***. Let me know if this creates a hardship for you.

The feedback report should be reviewed as you complete the 2<sup>nd</sup> survey. That survey has been designed to build on the information gathered in the 1<sup>st</sup> survey. It presents an interesting story. While there are some similarities to Beef and Dairy panels, I do see unique patterns. The 2<sup>nd</sup> survey will tell us more.

I expect the 2<sup>nd</sup> survey to take you approximately 20 minutes to complete assuming that long replies to the “open-ended” general comment questions are not needed. Reviewing the feedback report while you complete the survey may add 10 minutes to the process. I suggest that you print out the feedback report to review as you complete the survey (and simultaneously work through the report and survey).

You may find it helpful to print a copy of your completed survey before you hit the “Submit” button at the end of the survey. This will allow you to look over your own 2<sup>nd</sup> round estimates as you review the final panel report with the final survey. It will also provide an “insurance copy” that you can fax to me if your submission gets lost in cyberspace. (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 will need to set your “Preferences” to “Landscape” in the Print Command.)

Note that if you use the Enter Key, you may prematurely submit the survey. If that happens, just use the “back arrow” (in the upper-left corner of your browser) to go back and complete the survey.

Thank you for your continuing commitment to this important project. Please contact me if you have any difficulties.

Sincerely,

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

**Click on this link to get the 1<sup>st</sup> survey feedback report:**

<http://survey.cba.ksu.edu/prince/mixed-rural2/Mixed1Fdbk.pdf>

**Click on this link to go to the web-based 2<sup>nd</sup> survey for the Mixed-Rural Panel:**

<http://survey.cba.ksu.edu/prince/mixed-rural2/index.htm>

**Please complete this survey by September 15<sup>th</sup>**



<p>3. Federal and/or State/Provincial budgetary constraints</p> <p>Average = 3.7 &amp; Mid-50% = 3 to 4</p>	<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"/>
<p>4. Curtailment of government support of veterinary services</p> <p>Average = 3.3 &amp; Mid-50% = 2 to 4</p>	<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"/>
<p>5. Availability of highly technical or specialized services</p> <p>Average = 5.0 &amp; Mid-50% = 5 to 6</p>	<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"/>
<p>6. Constraints on non-DVMs giving prescription drugs</p> <p>Average = 5.2 &amp; Mid-50% = 4 to 6</p>	<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"/>
<p>7. Move to larger sized producer operations</p> <p>Average = 3.8 &amp; Mid-50% = 3 to 5; CDN = 4.5 &amp; US = 3.4</p>	<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"/>
<p>8. Client use of veterinary herd management services</p> <p>Average = 5.1 &amp; Mid-50% = 5 to 6</p>	<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"/>
<p>9. Lack of veterinarian's practice management &amp; business skill</p> <p>Average = 3.6 &amp; Mid-50% = 3 to 5</p>	<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"/>
<p>Possible Demand Issues</p>	<p>Influence on Future Demand for Mixed - Rural Veterinarians</p>								
	<p>Strong Decrease</p>	<p>Decrease</p>	<p>Slight Decrease</p>	<p>No Influence</p>	<p>Slight Increase</p>	<p>Increase</p>	<p>Strong Increase</p>	<p>No Trend</p>	<p>No Opinion</p>



2. 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.

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

*1st Survey: Average = 4.9 & Mid-50% = 3 to 6*

- 1. Decrease a Great Deal
- 2. Decrease Moderately
- 3. Decrease Slightly
- 4. Stay Exactly the Same
- 5. Increase Slightly
- 6. Increase Moderately
- 7. Increase a Great Deal

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

For example, if you expect to see a 3% *increase* in demand over the next year as your "most likely" estimate, then select "3 (increase)" from the drop-down menu. If you see a likely 4% *decrease* in demand, you would select "-4 (decrease)". Averages and

ranges (middle 50% of replies) from the 1st survey are noted.

*1st Survey: Those focused on Canada (vs. the US) saw higher demand increases but these were not statistically strong differences.*

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

a. **between the fall of 2004 and fall of 2005** there will be a **percentage change** (increase or decrease) of:

*Average = +3.7% (increase) & Mid-50% = 0% to +10.0% (increase)*

CLICK TO CHOOSE

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

*Average = +6.8% (increase) & Mid-50% = +2.0% to +20.0% (increase)*

CLICK TO CHOOSE

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

*Average = +4.9% (increase) & Mid-50% = 0% to +10.0% (increase)*

CLICK TO CHOOSE

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

*Average = +4.4% (increase) & Mid-50% = 1% to +10.0% (increase)*

CLICK TO CHOOSE

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

[CLICK TO CHOOSE](#)

*Average = +4.9% (increase) & Mid-50% = 0% to +10.0% (increase)*

**5. What is the minimum "reasonable range" around the above estimates 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 to +4%.**

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

- plus or minus .5
- 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
- plus or minus 8 or more

**6. Please rate the extent that the following activities in Mixed - Rural Practices will experience higher or lower demand *relative* to the general pattern noted above. These activities were suggested by panel members in the 1st survey.**

	Demand for Service <i>Relative</i> to General Pattern






Average = 3.0 & Mid-50% = 2 to 4; Experts = 2.4 (vs. 3.4)									
4. Poor income opportunities in food supply careers  Average = 2.8 & Mid-50% = 1.5 to 4	<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"/>
5. Expected high number of food supply veterinarians retiring in the near future  Average = 2.6 & Mid-50% = 2 to 4	<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"/>
6. Perceived lack of demand for food animal skills  Average = 3.2 & Mid-50% = 2 to 4	<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"/>
7. Selection of veterinary students with an agricultural background	<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. Promotion of the positive benefits of a rural lifestyles	<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. Income opportunities in mixed practices	<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. Effective marketing of food animal careers opportunities	<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. Government funding for Veterinary Medical Services Act	<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. Government programs that pay for veterinary public service activities	<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. Increasing demand for lucrative small animal 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"/>
14. Use of narrow criteria (GPA & test									

scores) to select DVM students	<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. Marginalization of food animal medicine in schools	<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. Please clarify or explain any of your answers to the previous questions in this section *if needed*.

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#### 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.

10. Will there be a *surplus* or *shortage* of Mixed - Rural Practice food supply veterinarians required to meet expected demand over the next 12 years?

*1st Survey: Average=6.0 & Mid-50% = 6 to 7*

There will be a...

- ... 1. *large surplus*
- ... 2. *surplus*
- ... 3. *slight surplus*
- ... 4. *very close match*
- ... 5. *slight shortage*
- ... 6. *shortage*

○ ... 7. *large shortage*

11. What is your “Most Likely” estimate of the *percentage shortage* (not enough veterinarians to meet the demand for their services) or *surplus of Mixed - Rural Practice* veterinarians? 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. Averages and range information are from the 1st survey.

My “Most Likely” estimate of *shortage or surplus of Mixed - Rural Practice* veterinarians is that...

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

CLICK TO CHOOSE

*Average= -7.6% (shortage) & Mid-50% = -10.0% to -2.0% (shortage)*

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2. ... *between the fall of 2004 and fall of 2005* the available supply will differ from the *expected* demand by this percentage:

CLICK TO CHOOSE

*Average= -9.7% (shortage) & Mid-50% = -12.0% to -3.0% (shortage)*

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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

*Average= -11.6% (shortage) & Mid-50% = -16.0% to -4.0% (shortage)*

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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

*Average= -11.4% (shortage) & Mid-50%= -20.0% to -4.0% (shortage)*

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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

*Average= -12.0% (shortage) & Mid-50%= -21.3% to -2.5% (shortage)*

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](#)

*Average= -11.5 (shortage) & Mid-50%= -16.0% to -1.0% (shortage)*

**12. What is the minimum "reasonable range" around the shortage/surplus estimates provided above that you think will capture the actual number? For example, if you think that your estimates "plus or minus 1" is the minimum reasonable range, you should select the second choice. This would indicate that, if you estimated a +3 surplus, you are reasonably confident that actual surplus will be between +2 to +4%.**

**I am reasonably confident that actual shortage/surplus will be within the "range" defined by my estimates and:**

- plus or minus .5
- 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

**13. If you see a future SHORTAGE of qualified DVMs available for food supply veterinary Mixed - Rural Practice Careers, then please identify up to three good solutions that will help solve this problem. The space available will expand as you type. (Note: Skip this question if you do not see a shortage problem.)**

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**14. If you see a SURPLUS of qualified DVMs available for food supply veterinary Mixed - Rural Practice Careers, then please identify up to three good solutions that will help solve this problem. (Note: Skip this question if you do not see a surplus.)**

**15. Please use this space to clarify or explain your predictions *if needed*.**

## **V. Background Information**

**16. What is your name? This will help us track replies over all questionnaires. All replies will remain confidential.**

**17. 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 those results will be included with the request for replies to the third and final survey.**

**You may wish to print out a copy of this survey to refer back to in completing the third and final survey. Printing out this document in "Landscape" will produce the best results.**

**If you have any questions, please feel free to contact Dr. Bruce Prince at 785-532-7459 or [jbprince@ksu.edu](mailto:jbprince@ksu.edu).**

**Please click on the Submit Survey button now.**

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