

## Appendix B

### Interview & Survey Guide

**Title of Study:** Managing Climate Change on Apple Orchards

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1. A. For which purposes does your orchard produce apples for:
  - Eating
  - Cider Making
  - Baking/producing apple productsB. Which of the above is your primary purpose as an orchard?
2. How long have you personally been working at the orchard?
3. What is your job title at the orchard?
4. How long has the orchard been in operation?
5. Approximately how many acres of apple trees are on the orchard?
6. Approximately how many bushels of apples are produced each year?
7. A. Approximately how many different varieties of apples are being grown on the orchard this year?  
B. Over the past 10 year period, this number has:
  - Increased
  - Stayed the same
  - DecreasedC. On average, how often do you introduce a new apple variety to the orchard?

8. Can you name all of the varieties currently being grown in the orchard?
9. Is there a variety that you grow the most of? Why?
10. Is there a variety that you grow the least of? Why?
11. What is the variety you most recently introduced into the orchard and why did you decided to plant it?
12. Do you consider any of the varieties being grown here to be rare or endangered? If so, which ones? (*If not already discussed, ask about characteristics and reason for growing*)
13. Can you name all of the varieties that were grown here at one time but are no longer being grown, as well as explain why each one is no longer being grown?
14. Does your orchard contain different environmental growing conditions (such as different elevations, north/south exposure, soil types, etc.)?
15. Over the length of time you've been here at the orchard, have you noticed any general changes affecting how the apples grow? Please explain
  - Probe-* weather pattern/ climate changes
  - Probe-* flowering/ harvesting time changes
  - Probe-* decrease or increase in certain varieties' productivity
  - Probe-* insect/ pest changes
  - Probe-* disease changes
16. Regarding these changes, when did you first notice them?
17. How do/did you respond to the previously mentioned changes?

18. Do you/your orchard collect weather or climate data (such as average annual or monthly rainfall; temperature)?

*Probe-* If so, what data do you collect and how do you collect it?

19. What (other) sources do you use to get weather or climate information?

20. What do you anticipate the local climate to look like in the future?

21. In what ways will apple production be affected?

22. Are you doing anything to prepare for the future climate?

23. What do you think is the cause of any weather changes you have observed?

*Probe-* Do you feel human actions have had any impacts on the weather changes?