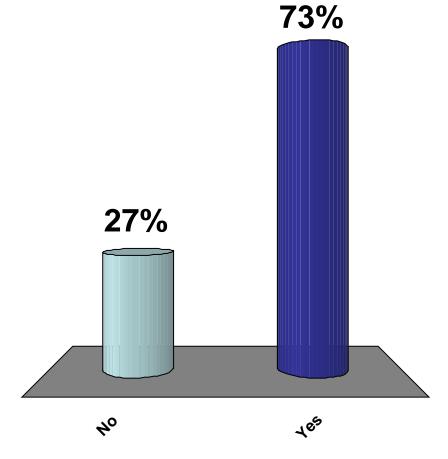


Are you in Yakima?

1. No

2. Yes



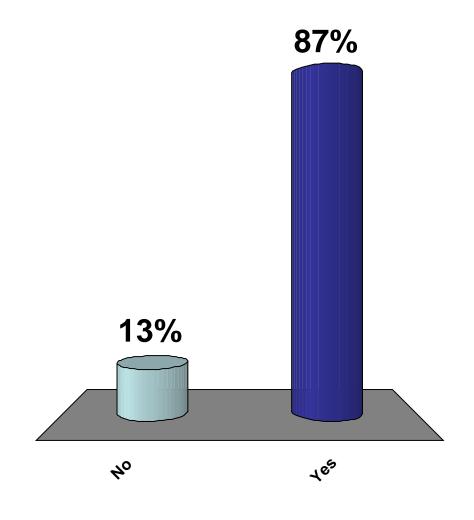


Do you work with organic orchards?

1. No

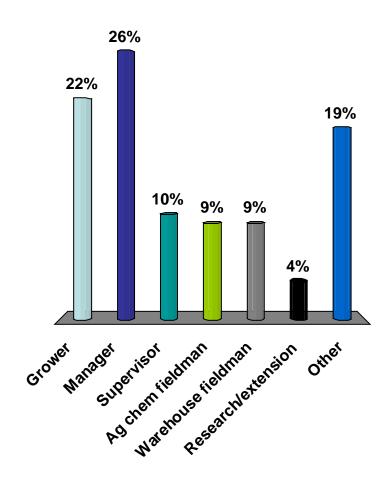
2. Yes





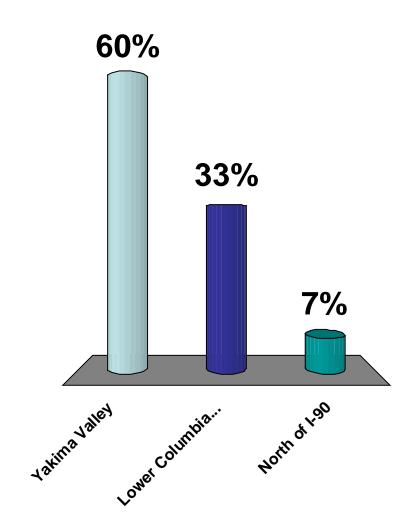
What is your role?

- 1. Grower
- 2. Manager
- 3. Supervisor
- 4. Ag chem fieldman
- 5. Warehouse fieldman
- 6. Research/extension
- 7. Other



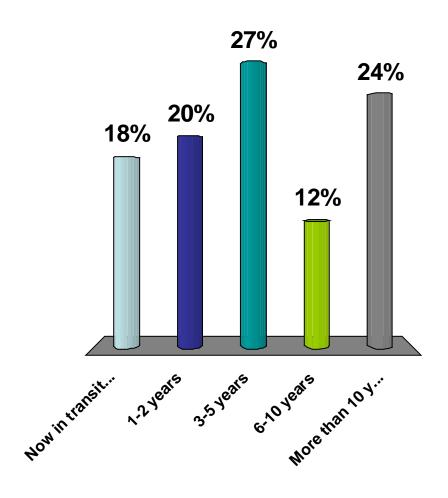
Where is most of your organic orcharding?

- 1. Yakima Valley
- 2. Lower Columbia Basin
- 3. North of I-90



How long have you been in organic orcharding?

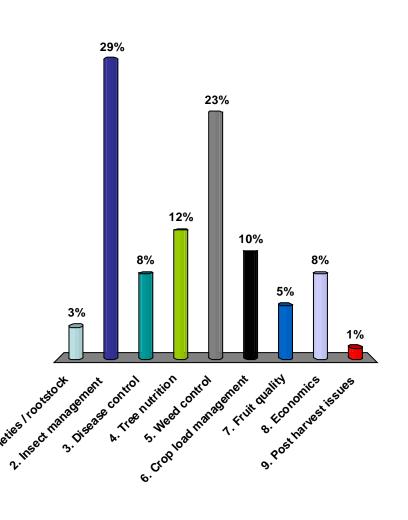
- 1. Now in transition
- 2. 1-2 years
- 3. 3-5 years
- 4. 6-10 years
- 5. More than 10 years



Question 1a.

What is the most serious problem you face in organic tree fruit production?

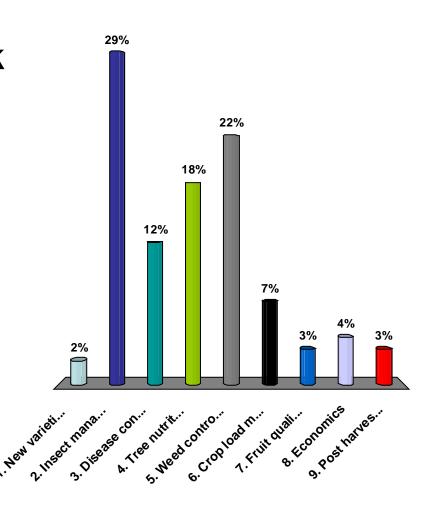
- 1. New varieties / rootstock
- 2. Insect management
- 3. Disease control
- 4. Tree nutrition
- 5. Weed control
- 6. Crop load management
- 7. Fruit quality
- 8. Economics
- 9. Post harvest issues



Question 1b.

What is the 2nd most serious problem you face in organic tree fruit production?

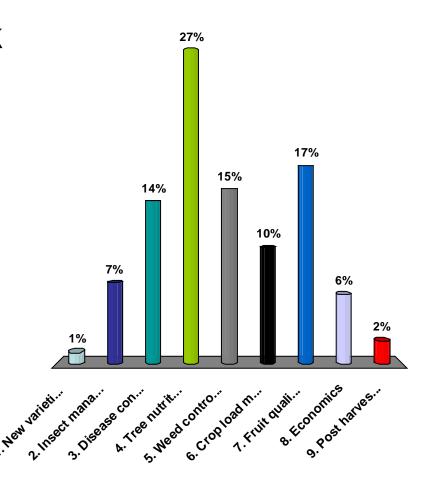
- 1. New varieties / rootstock
- 2. Insect management
- 3. Disease control
- 4. Tree nutrition
- 5. Weed control
- 6. Crop load management
- 7. Fruit quality
- 8. Economics
- 9. Post harvest issues



Question 1c.

What is the 3rd most serious problem you face in organic tree fruit production?

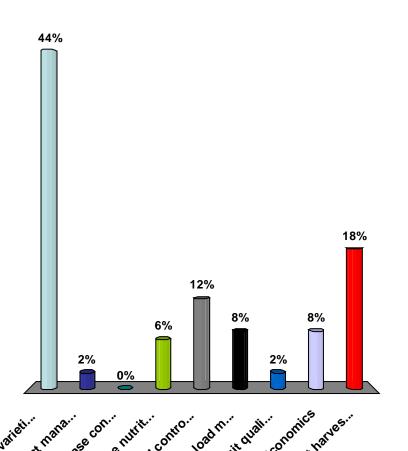
- 1. New varieties / rootstock
- 2. Insect management
- 3. Disease control
- 4. Tree nutrition
- 5. Weed control
- 6. Crop load management
- 7. Fruit quality
- 8. Economics
- 9. Post harvest issues



Question 1d.

Which is the least serious problem you face in organic tree fruit production?

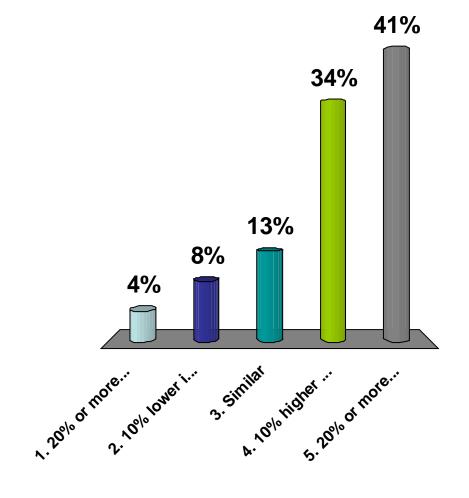
- 1. New varieties / rootstock
- 2. Insect management
- 3. Disease control
- 4. Tree nutrition
- 5. Weed control
- 6. Crop load management
- 7. Fruit quality
- 8. Economics
- 9. Post harvest issues



Question 2.

How would you compare the cost of production for organic tree fruit to similar conventional production?

- 1. 20% or more lower in organic
- 2. 10% lower in organic
- 3. Similar
- 4. 10% higher in organic
- 5. 20% or more higher in organic

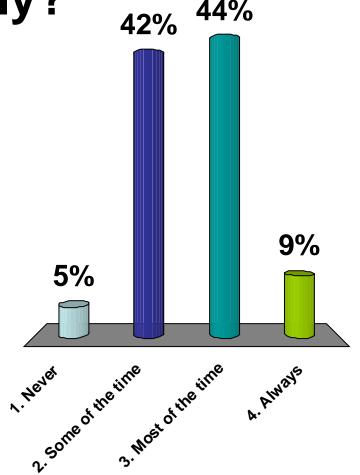


Question 3.

Do the returns from organic production offset the added costs of growing fruit organically?

420, 44%

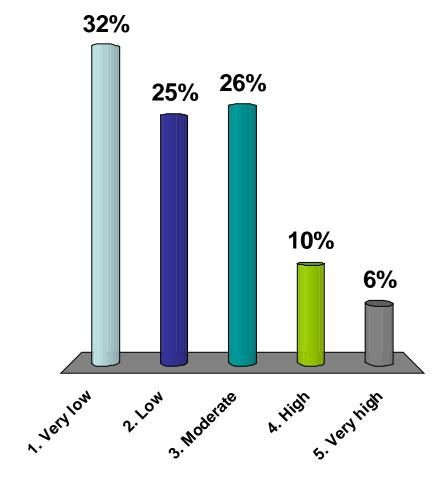
- 1. Never
- 2. Some of the time
- 3. Most of the time
- 4. Always



Question 4.

What is your level of satisfaction with your current options for weed control in organic orchards?

- 1. Very low
- 2. Low
- 3. Moderate
- 4. High
- 5. Very high

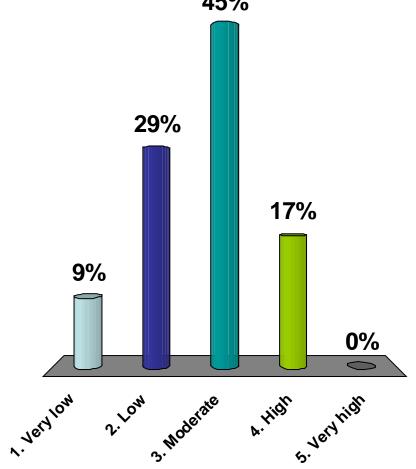


Question 5.

What is your level of satisfaction with your current options for tree nutrition in organic orchards?

45%

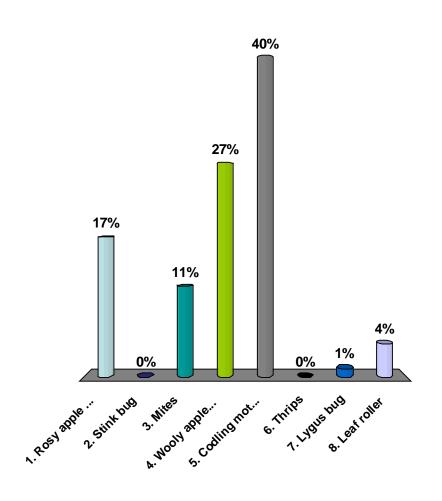
- 1. Very low
- 2. Low
- 3. Moderate
- 4. High
- 5. Very high



Question 6a.

Rank the most difficult insect pest to control in organic apple production.

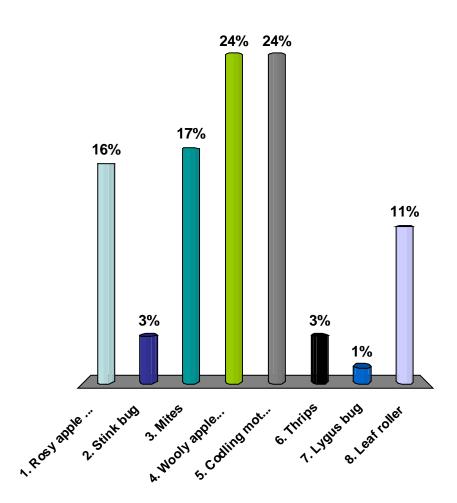
- 1. Rosy apple aphid
- 2. Stink bug
- 3. Mites
- 4. Wooly apple aphid
- 5. Codling moth
- 6. Thrips
- 7. Lygus bug
- 8. Leaf roller



Question 6b.

Rank the second most difficult insect pest to control in organic apple production.

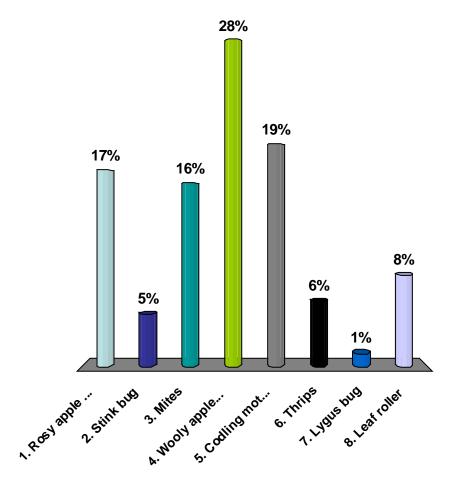
- 1. Rosy apple aphid
- 2. Stink bug
- 3. Mites
- 4. Wooly apple aphid
- 5. Codling moth
- 6. Thrips
- 7. Lygus bug
- 8. Leaf roller



Question 6c.

Rank the third most difficult insect pest to control in organic apple production.

- 1. Rosy apple aphid
- 2. Stink bug
- 3. Mites
- 4. Wooly apple aphid
- 5. Codling moth
- 6. Thrips
- 7. Lygus bug
- 8. Leaf roller

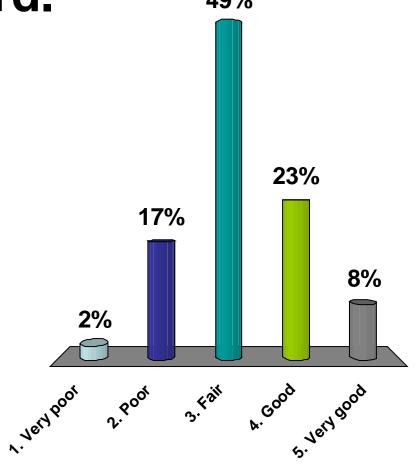


Question 7.

Rate the ability of existing tools to control codling moth in an organic orchard.

49%

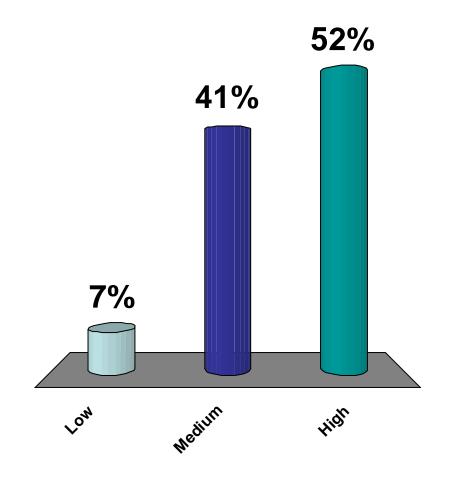
- 1. Very poor
- 2. Poor
- 3. Fair
- 4. Good
- 5. Very good



Question 8.

Rate the need for additional codling moth control tools for organics.

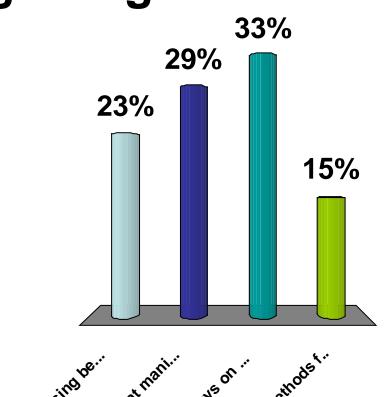
- 1. Low
- 2. Medium
- 3. High



Question 9.

What biocontrol category is the most important for you to know more about as an organic grower?

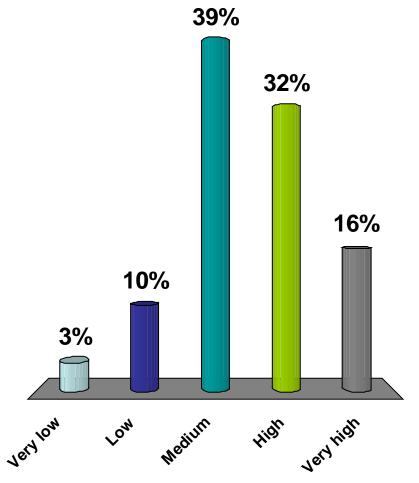
- 1. Value of releasing beneficial insects
- 2. Value of habitat manipulation (e.g. rose garden, cover crops)
- 3. Effects of sprays on beneficial insects
- 4. Monitoring methods for beneficial insects



Question 10.

Rank the need for more research on post-harvest diseases of organic apples.

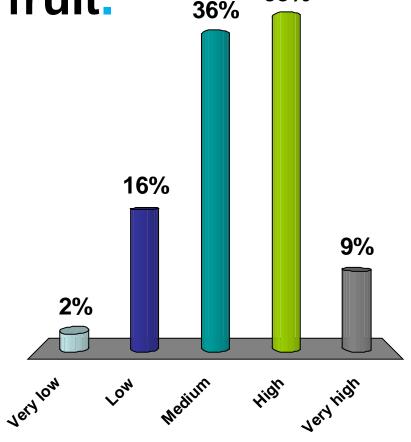
- 1. Very low
- 2. Low
- 3. Medium
- 4. High
- 5. Very high



Question 11.

Rank the importance of research to develop methods to measure soil quality changes and the impacts on trees and fruit.

- 1. Very low
- 2. Low
- 3. Medium
- 4. High
- 5. Very high



Systems Research

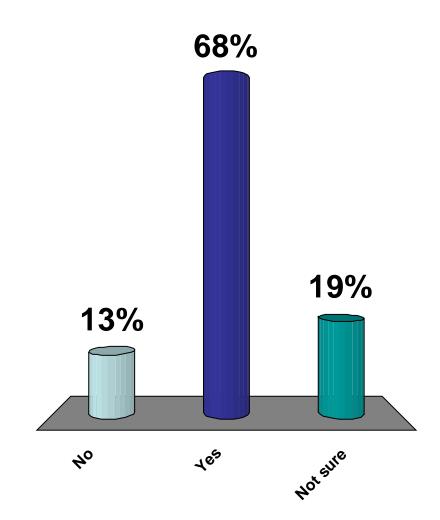
- Long-term
- Interdisciplinary bugs, dirt, and money!
- Interaction of parts effects of soil on fruit quality; fertility and diseases, ...
- Ecological design of the orchard system training systems, rose gardens, ground cover, water use, ...
- Other climate change impacts, energy, etc.

Benefits: more self-regulation of pests, fertility; more stability; lower environmental impact, lower input costs; ...

Question 12a.

Do we need a long-term organic systems research site?

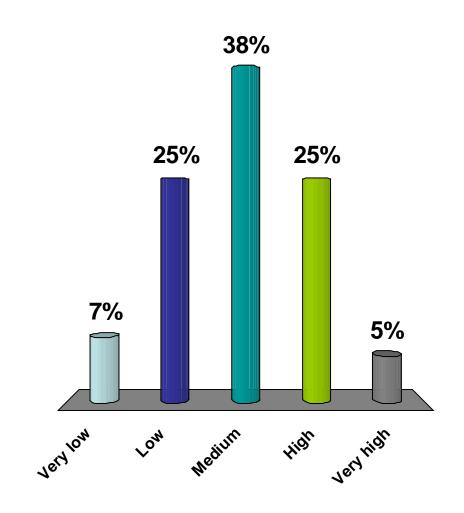
- 1. No
- 2. Yes
- 3. Not sure



Question 12b.

Rank the importance of a systems research site compared to support for more immediate problems (e.g. a new pest)?

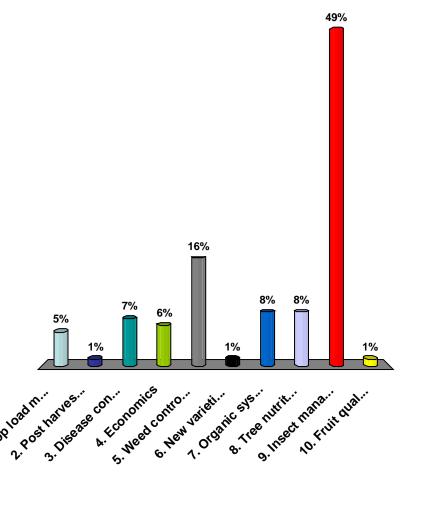
- 1. Very low
- 2. Low
- 3. Medium
- 4. High
- 5. Very high



Question 13a.

Choose your highest priority for organic tree fruit <u>research</u>.

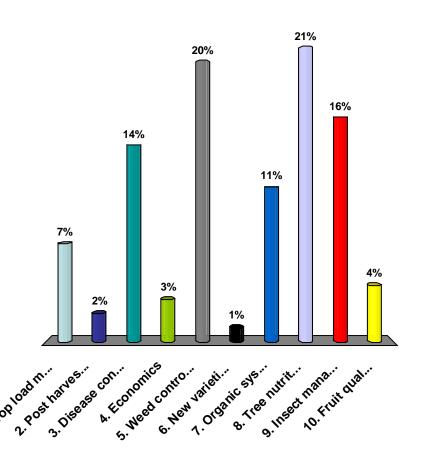
- 1. Crop load management
- 2. Post harvest issues
- 3. Disease control
- 4. Economics
- 5. Weed control
- 6. New varieties / rootstock
- 7. Organic systems site
- 8. Tree nutrition
- 9. Insect management
- 10. Fruit quality



Question 13b.

Choose your 2nd highest priority for organic tree fruit <u>research</u>.

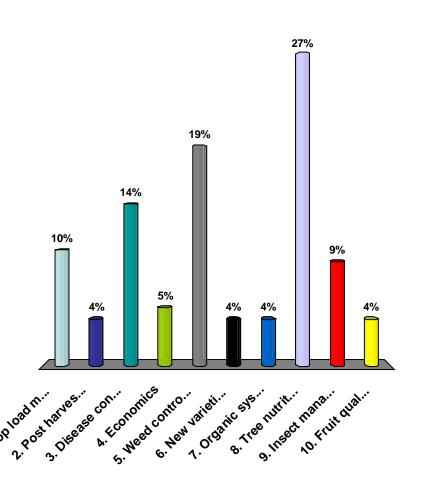
- 1. Crop load management
- 2. Post harvest issues
- 3. Disease control
- 4. Economics
- 5. Weed control
- 6. New varieties / rootstock
- 7. Organic systems site
- 8. Tree nutrition
- 9. Insect management
- 10. Fruit quality



Question 13c.

Choose your 3rd highest priority for organic tree fruit <u>research</u>.

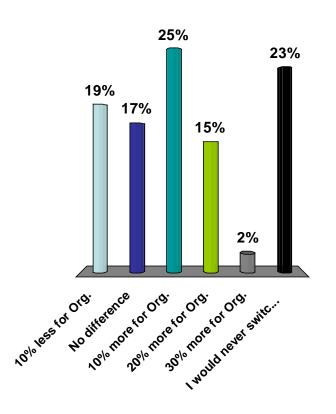
- 1. Crop load management
- 2. Post harvest issues
- 3. Disease control
- 4. Economics
- 5. Weed control
- 6. New varieties / rootstock
- 7. Organic systems site
- 8. Tree nutrition
- 9. Insect management
- 10. Fruit quality



Question 14.

At what point would you consider switching back to conventional production – if the minimum difference between Organic and Conventional bin returns were:

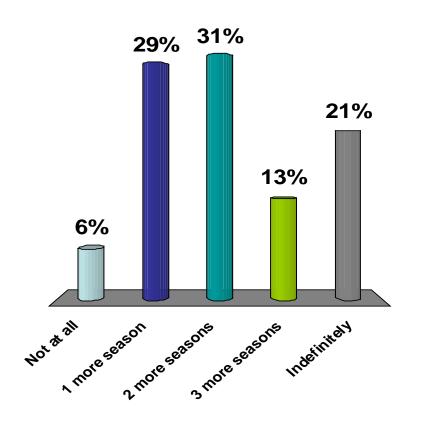
- 1. 10% less for Org.
- 2. No difference
- 3. 10% more for Org.
- 4. 20% more for Org.
- 5. 30% more for Org.
- 6. I would never switch back to Conventional



Question 15.

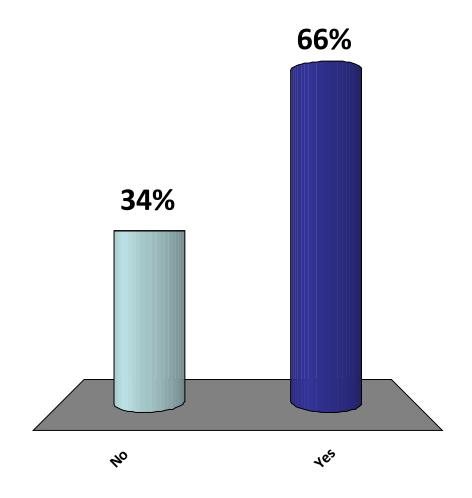
If organic premiums did not cover the increased costs, how long would you be willing to stay with organic production, given the 3 year transition to re-enter?

- 1. Not at all
- 2. 1 more season
- 3. 2 more seasons
- 4. 3 more seasons
- 5. Indefinitely



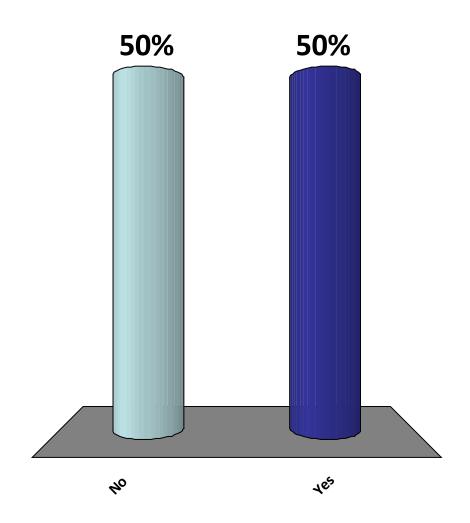
Do you use tillage for weed control?

- 1. No
- 2. Yes



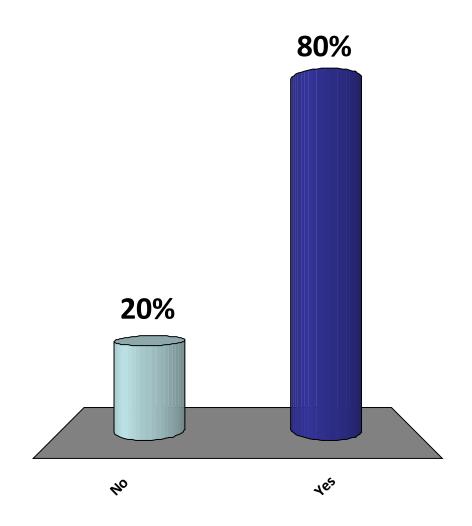
Have you used mulching for weed control / soil improvement?

- 1. No
- 2. Yes



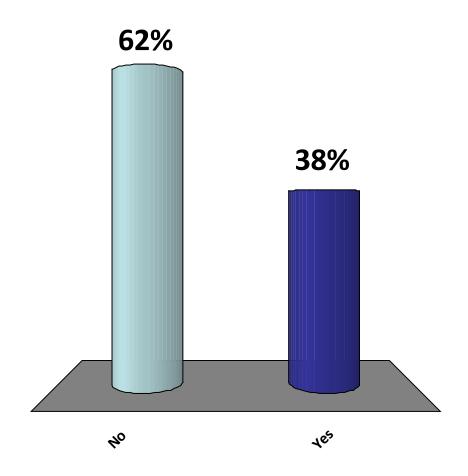
Do you use compost to supply nutrients?

- 1. No
- 2. Yes



Do you use legumes in the orchard to provide some nitrogen nutrition?

- 1. No
- 2. Yes



Rate your ability to adequately control mice (voles) in your organic orchard.

- 1. Very low
- 2. Low
- 3. Moderate
- 4. High
- 5. Very high

