

EC33-413: Bioproduction and Machinery/Structure Laboratory

Feedback Quiz: Orchards, Aerial Spraying (Open Book)

Total Points 10

Name:

ID

1. Orchard sprayers used to apply chemicals at various stages of tree development (True/False)

2. Two kinds of orchard sprayers:

1) _____

2) _____

3. What are the main advantages and disadvantages of aerial spraying compare to the ground sprayers?

4. In the fixed wind aerial spraying the payload could be 500 to 1000 Kg (True/ False)

5. Rotary aerial sprayers are suitable for few cases:

1) _____

2) _____

6. What are the principals of centrifugal and pneumatic atomization?

7. Pneumatic nozzles are available that use air to break the liquid into droplets (True/ False)

8. What is a micron? Note some examples of micron sizes.

9. a) VMD(____ _): Add droplet spectrum so half the total volume of the spray are of lesser diameter and half of greater diameter (True/ False)

b) NMD (____ _): Divides droplet spectrum so half the total number of droplets are of lesser and half are of greater diameter (True/ False)

10. Spray coverage is a function of drop size produced (True/ False)