



American Drone DRA

Drift Study

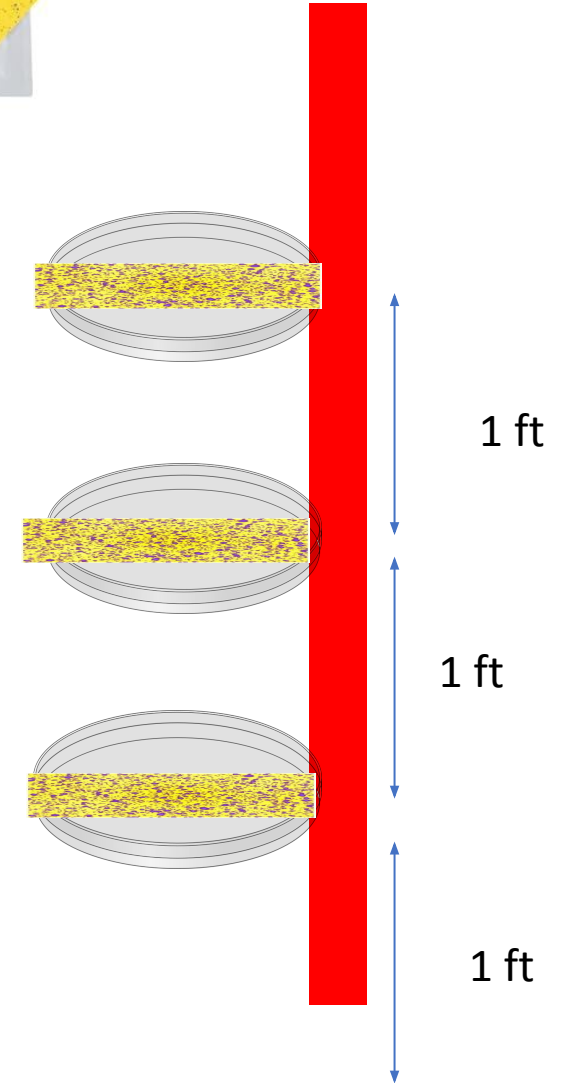
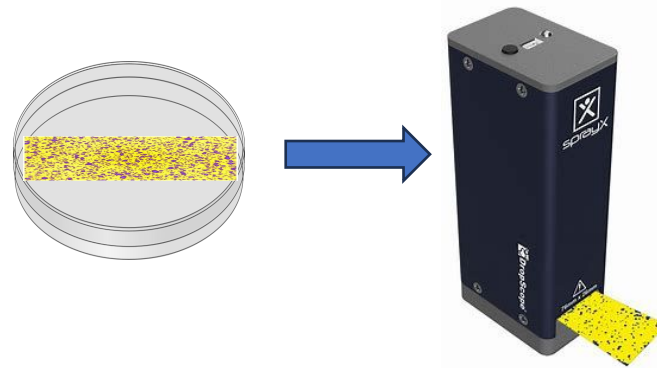
DJI T40 – Application Specifications

- Spray height: 12 ft above crop canopy
- Spray swath: 30-32 ft
- Volume: 2 gpa
- Speed: 32.8 ft/s (10 m/s)
- Droplet size target: >120-220 μm
 - XR simulation using an automizer
- Tank solution
 - Water
 - Water + American Drone DRA (0.25 %v/v – 32 fl oz/100 gallons)



Collection Posts

- 2x2 posts, 8 ft tall
 - Plastic petri dishes pre-drilled and attached to post
 - 3 petri dishes per post, 1 ft apart
 - Each dish contained 1 Spot On Spray card (1x3 inch)
- Cards processed in DropScope App (SprayX)

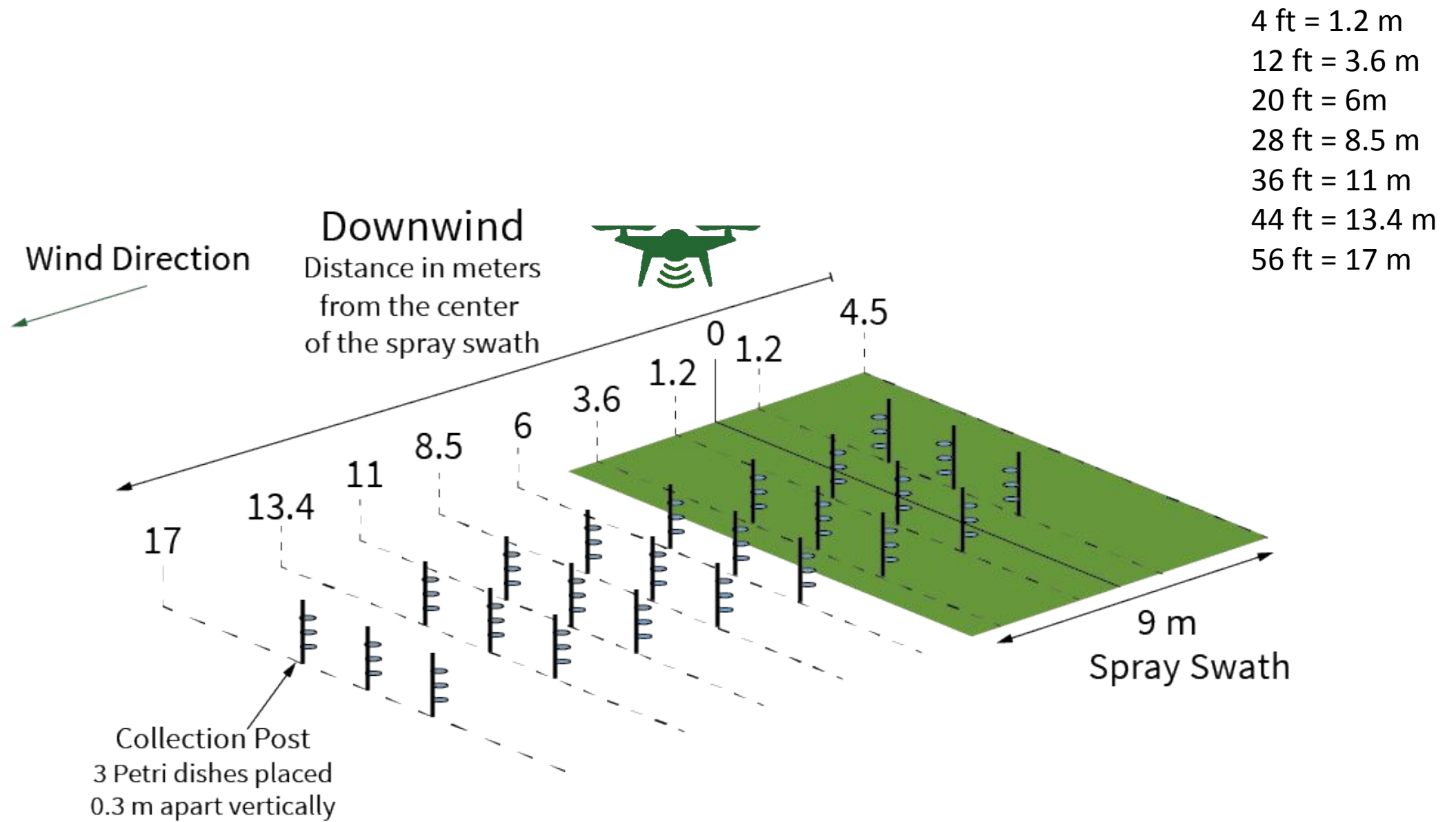


Collection post set up

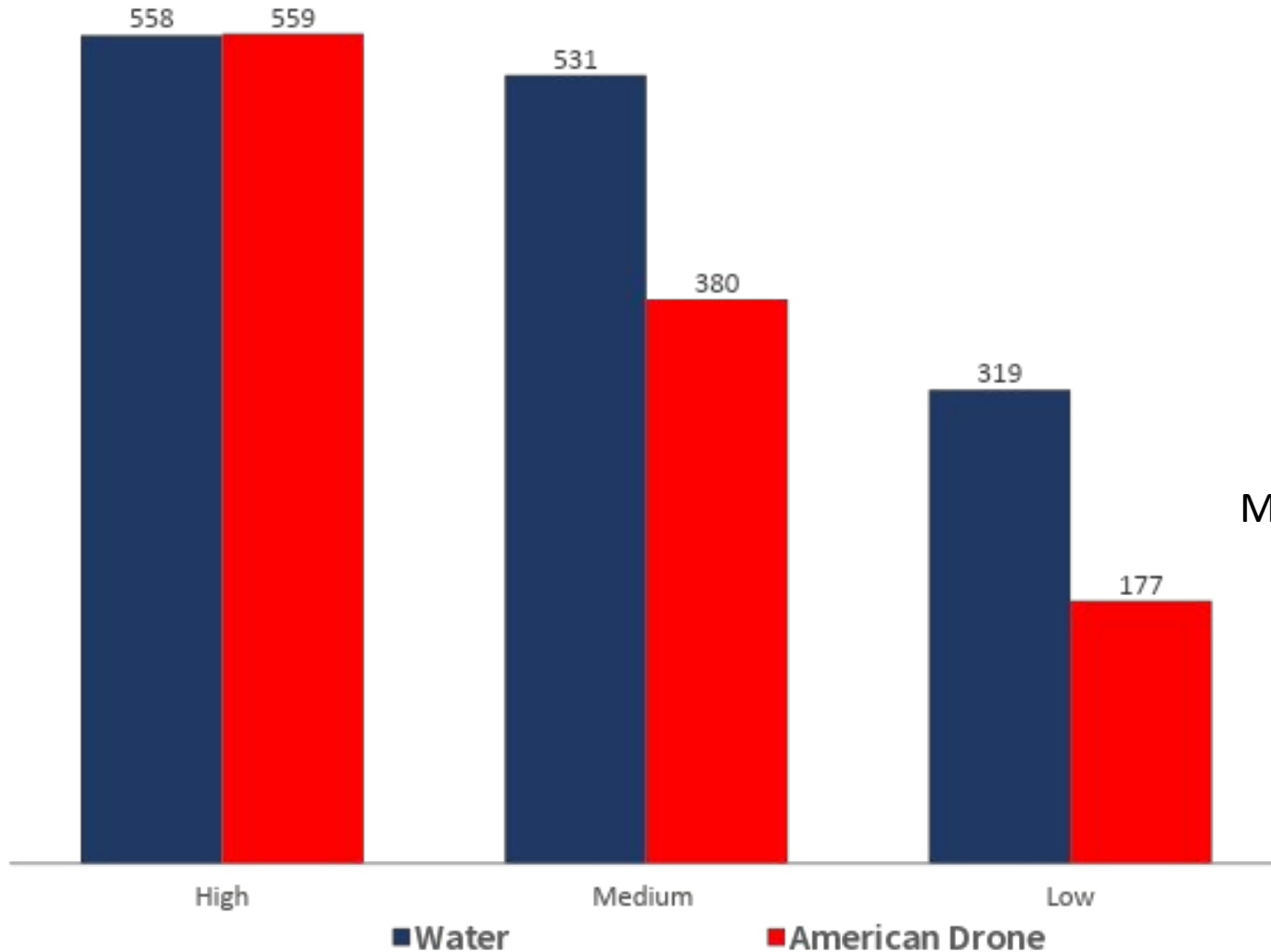


Overview of plot area

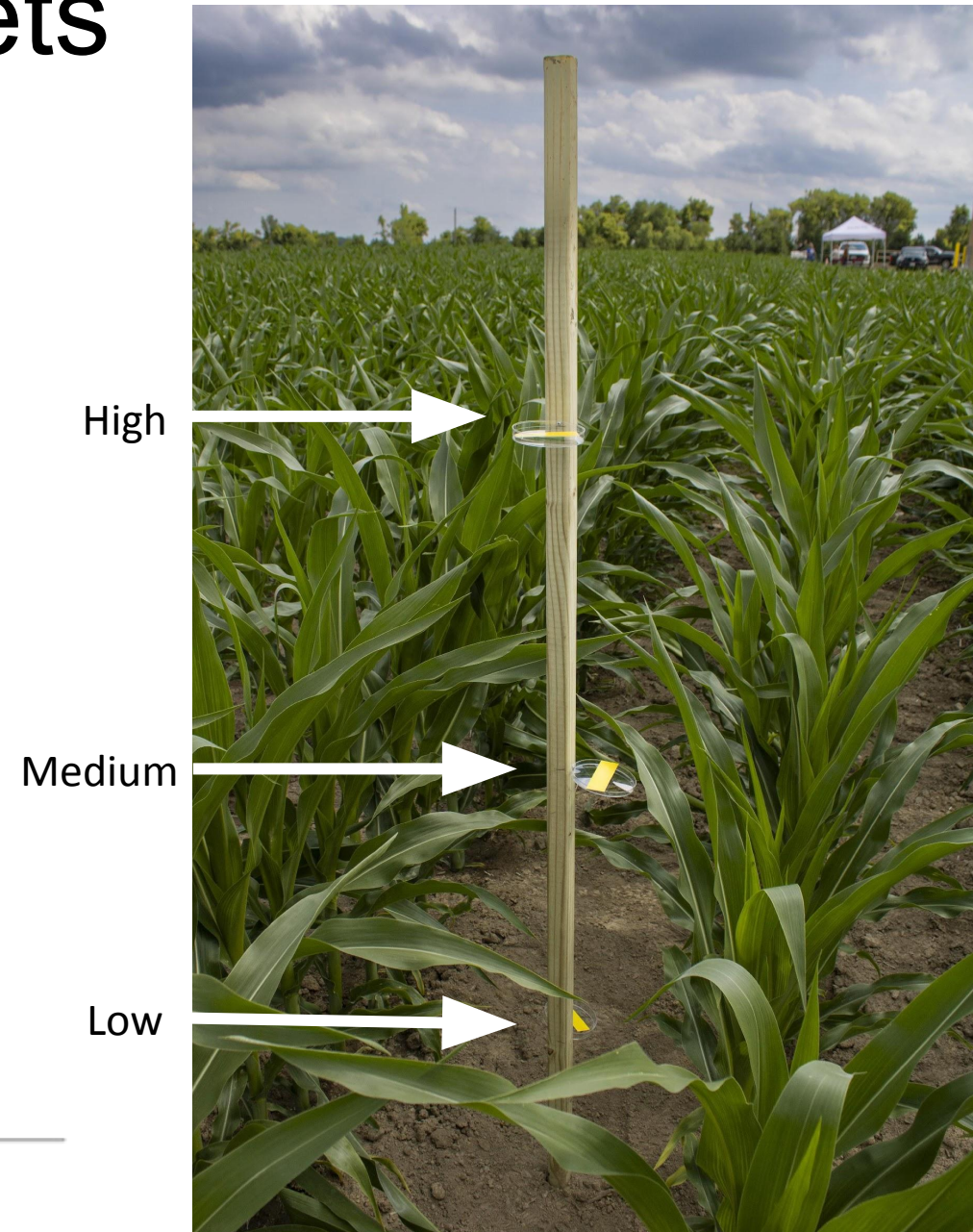




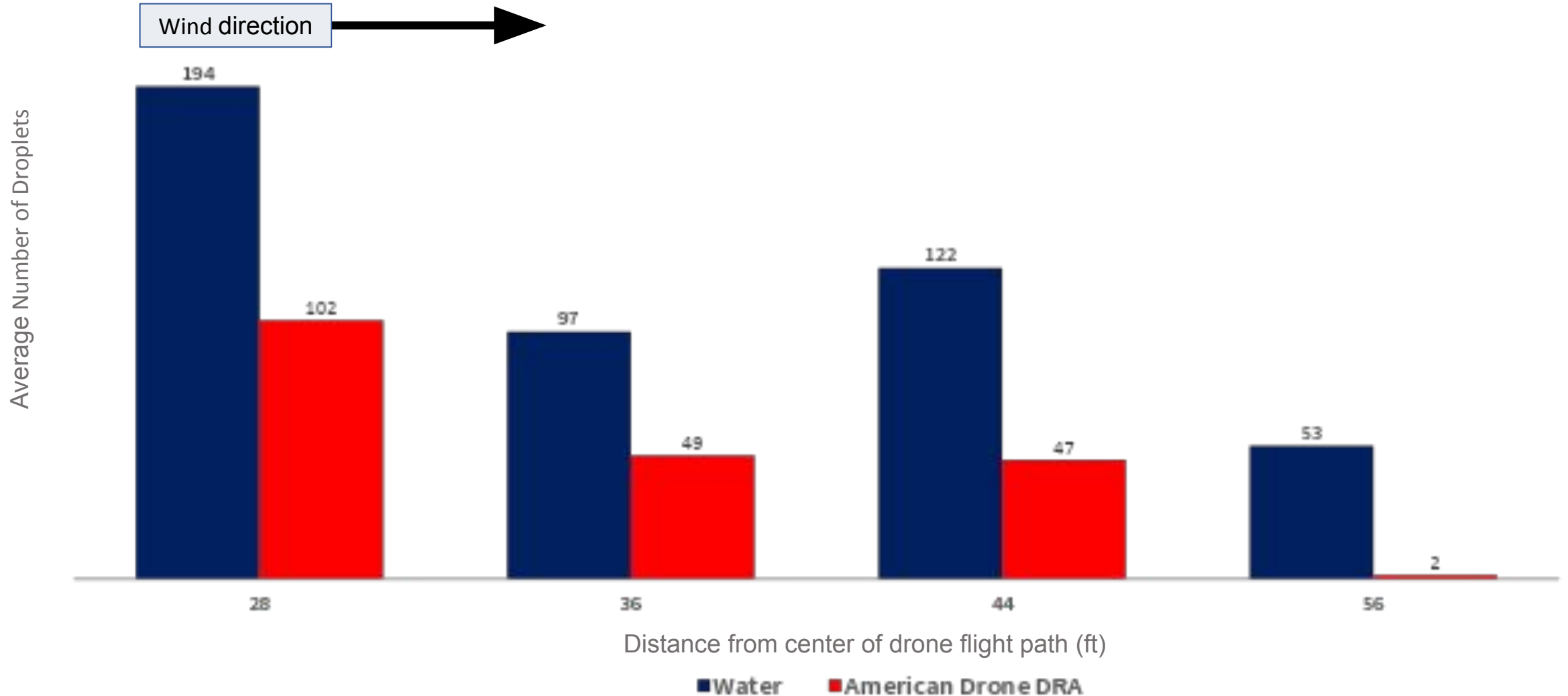
Average Number of Droplets Swath Deposition



DPA



Drift Collection Posts - # of Droplets

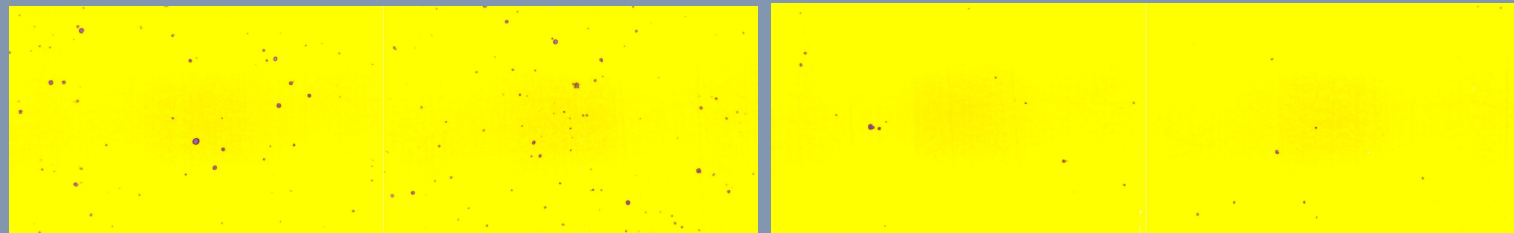


Distance from
the center of
the spray swath

28 ft



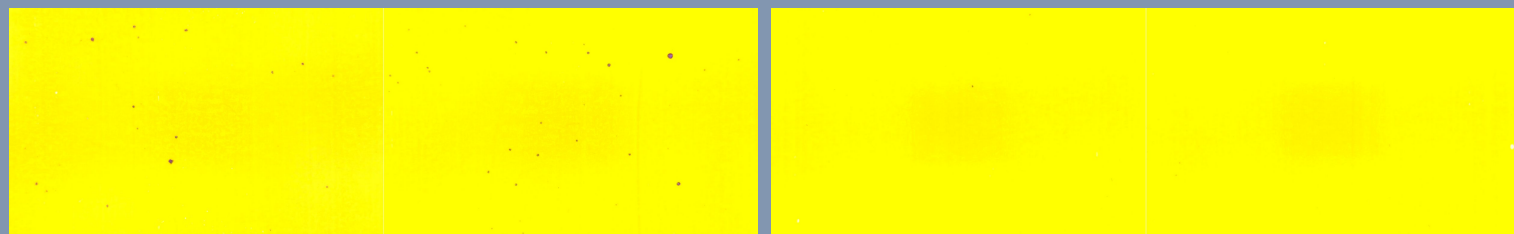
36 ft



44 ft



56 ft



Water

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