

# **Dearness Scale in BC a hard-shelled scale pest of cranberries**

**Brian Mauza, PAg**





# Dearness Scale in BC

- ❖ FIRST FOUND IN 2005 JULY
- ❖ OCCURRED IN PATCHES IN MIDDLE OF BEDS
- ❖ FIRST TRIED DIAZINON AND SEVIN BUT SCALE ALREADY HAD SHELL AND WAS NOT CONTROLLED
- ❖ DORMANT OIL IN WINTER – NO EFFECT
- ❖ SCOUTING AND TIMING DIAZINON APPLICATIONS FOR THE CRAWLER STAGES

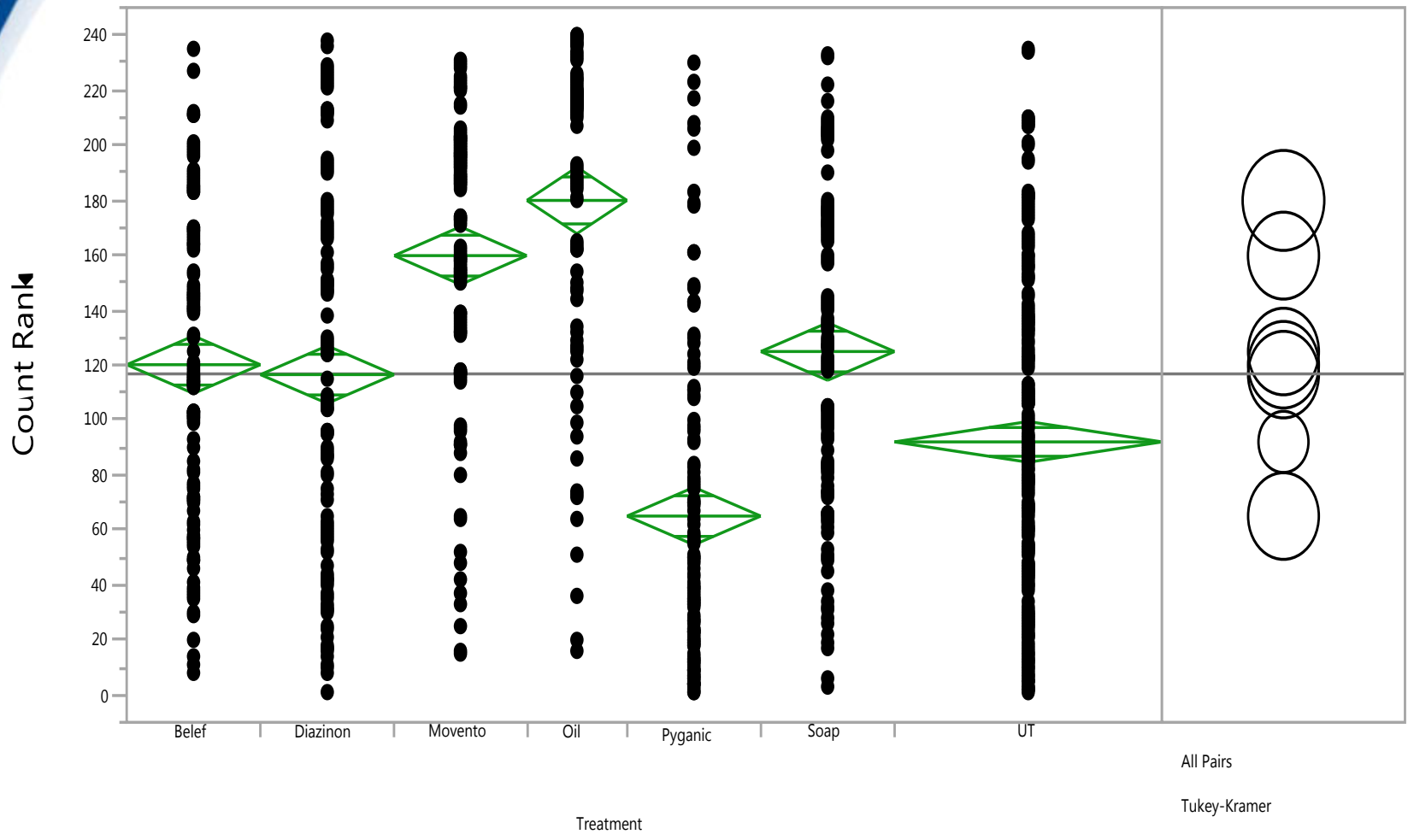




# PEST CONTROL TRIALS

- ❖ STARTED EARLY WITH NEEM OIL
- ❖ IN 2006 APPLIED FOR DIAZINON FOR D.S.
- ❖ IN 2010 LEARNED DIAZINON REGISTRATION WOULD BE CANCELLED FOR CRANBERRIES
- ❖ PESTICIDE TRIALS SINCE THEN





All Pairs

Tukey-Kramer

0.05



# Tested Products

- ❖ Diazinon works – some signs of resistance
- ❖ Assail equivalent to diazinon – but timing for BC was during bloom
- ❖ Beleaf and Horticultural Oil next best so far- both need at least 2 apps or an extra app after a rain event during crawler stage
- ❖



# Cultural and bio-control

- ❖ MOWING
  - Can lose crop but can be effective.
- ❖ parasitic wasps- not yet identified but we have seen very high levels in some fields.





# Cranberry Field Decline in BC

R. Harbut and L. Lavkulich  
P. Oeudemans, B. Mauza









# Brown vs. Green Matter



Brian Mauza, Agricultural Scientist, Ocean Spray of Canada, Ltd.



Brian Mauza, Agricultural Scientist, Ocean Spray of Canada, Ltd.





Brian Mauza, Agricultural Scientist, Ocean Spray of Canada, Ltd.









# CRANBERRY FIELD DECLINE

- Currently, there is no risk assessment system or management practices available to diagnose or control CFD.
- But there are indications of what could benefit a crop. It is mostly about prevention.
- Good drainage, adequate rooting (sanding or ?), tillage (  $H_2S$  )

