Summary of Virus Tests

ADS Spring Meeting 2018



2017, A Watershed Year in Dahlia R&D.

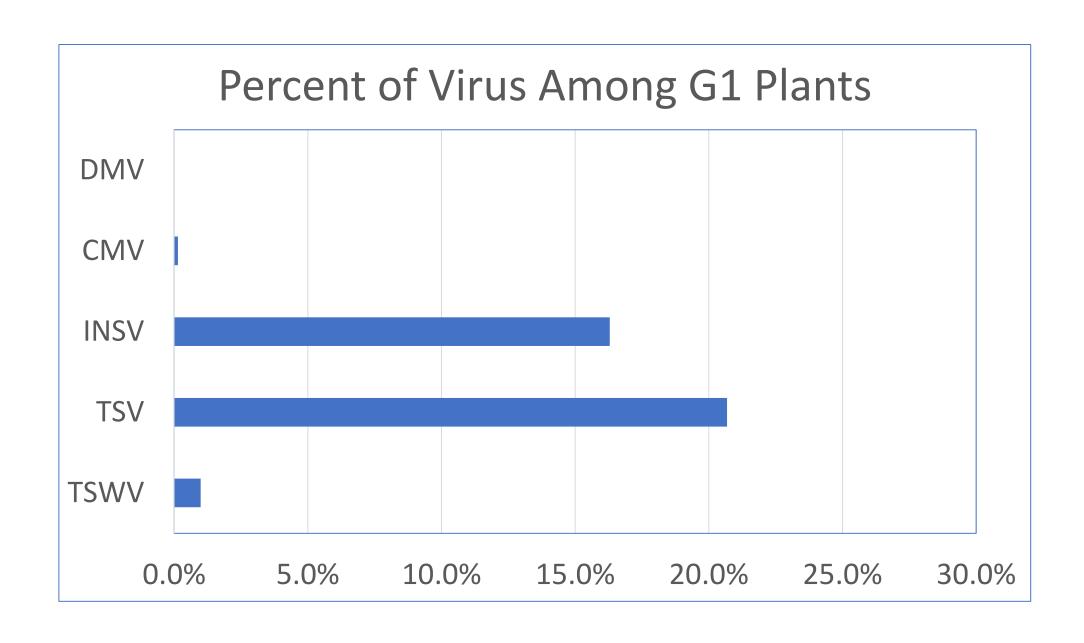
Hanu Pappu Appointed to the Position of Chair,

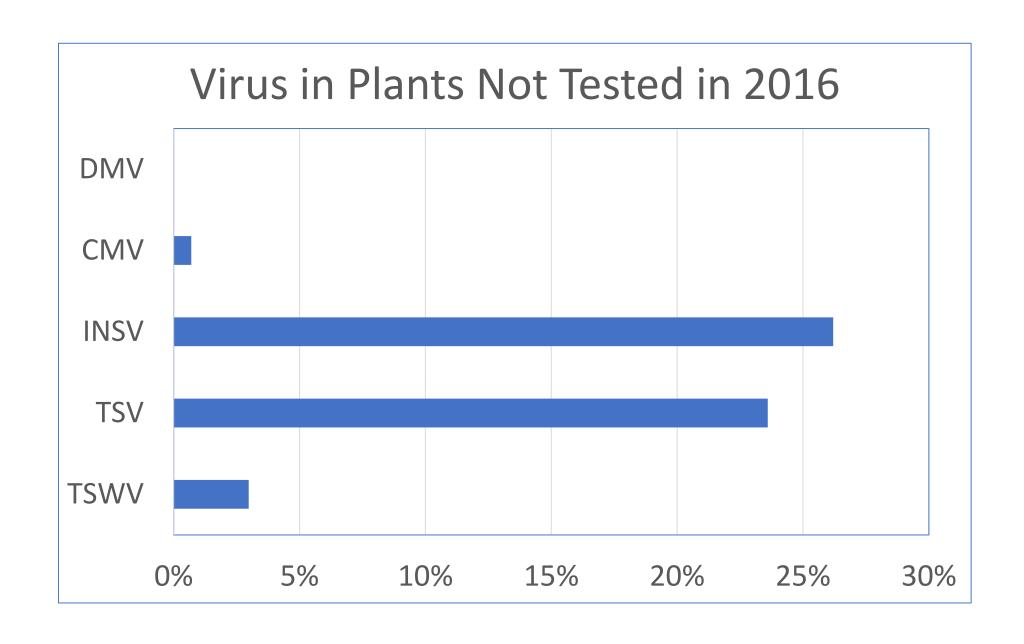
Carl F. and James J. Chuey

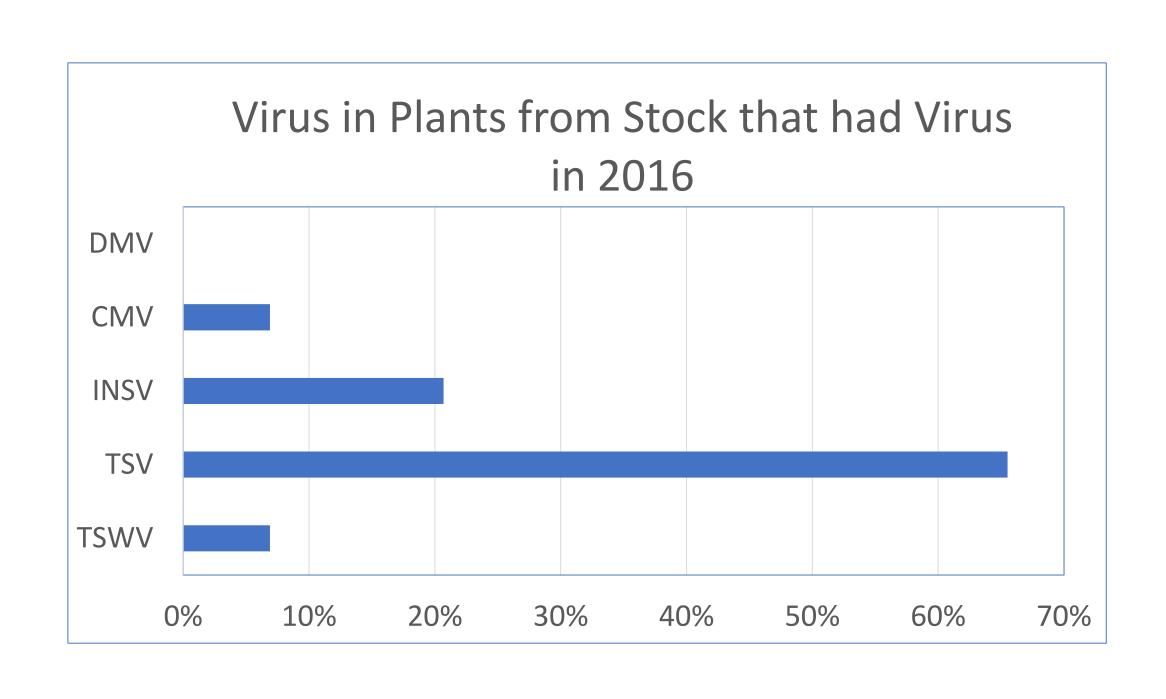
Dahlia Research and Development at WSU

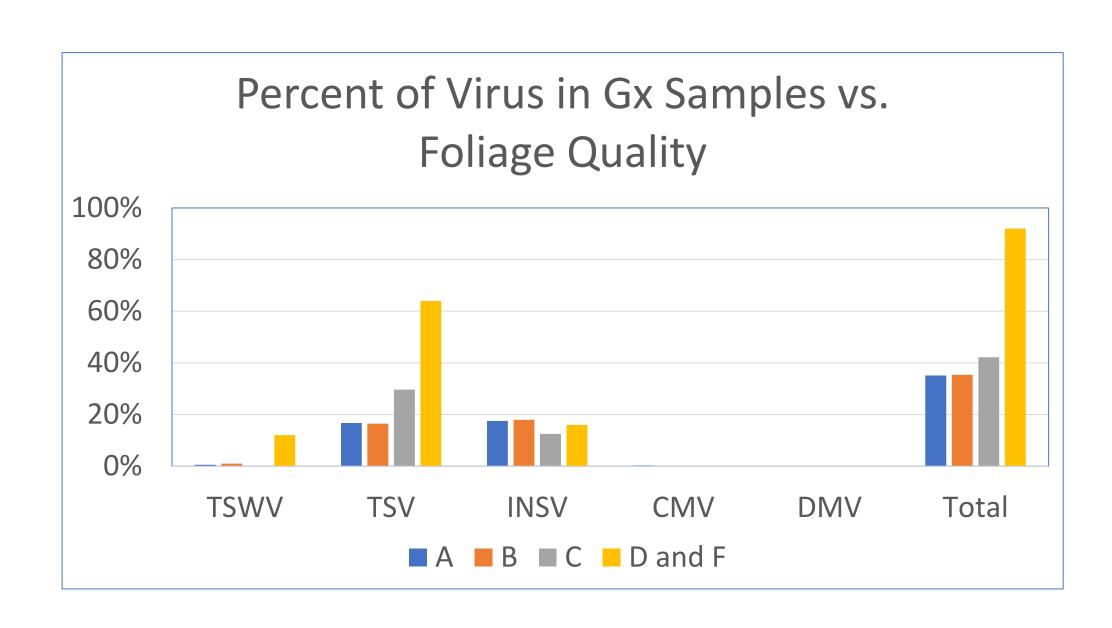
2017 Virus Results Overview

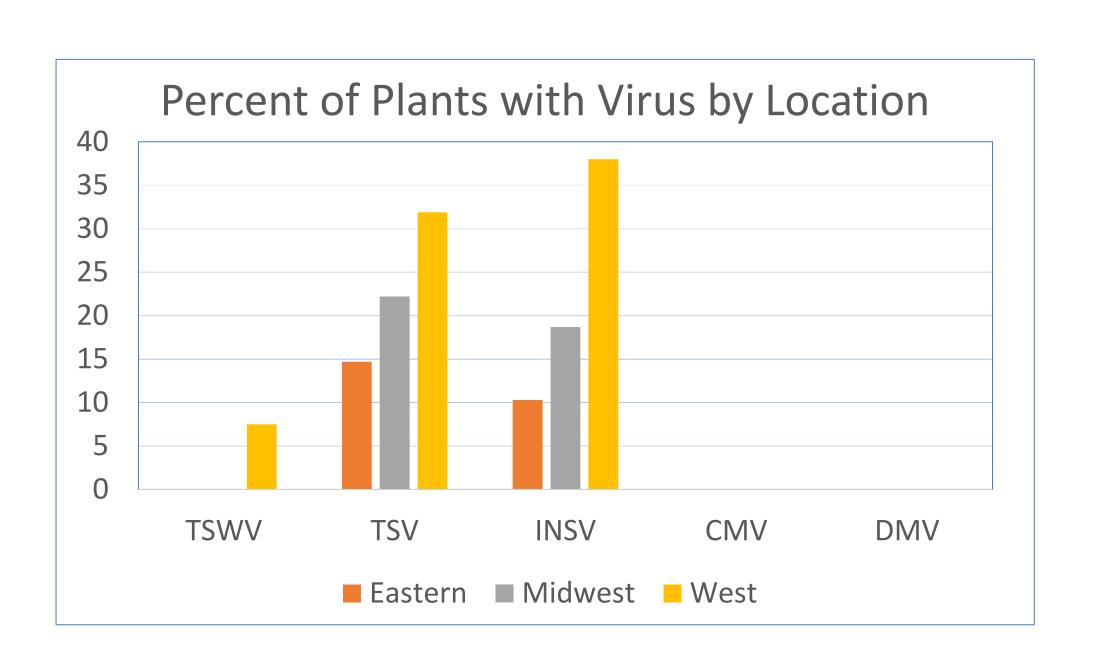
- 1665 Samples Analyzed from 27 Different Dahlia Gardens
- Each Sample Tested for Six Viruses
 - Impatiens Necrotic Spot Virus (INSV)
 - Cucumber Mosaic Virus (CMV)
 - Tomato Spotted Wilt Virus (TSWV)
 - Tobacco Streak Virus (TSV)
 - Dahlia Mosaic Virus/Dahlia Common Mosaic Virus (DMV)
- Emphasis on Plants from Clean 2016 Stock ("G1" Plants Tested Free)
- Foliage Rated by Grower

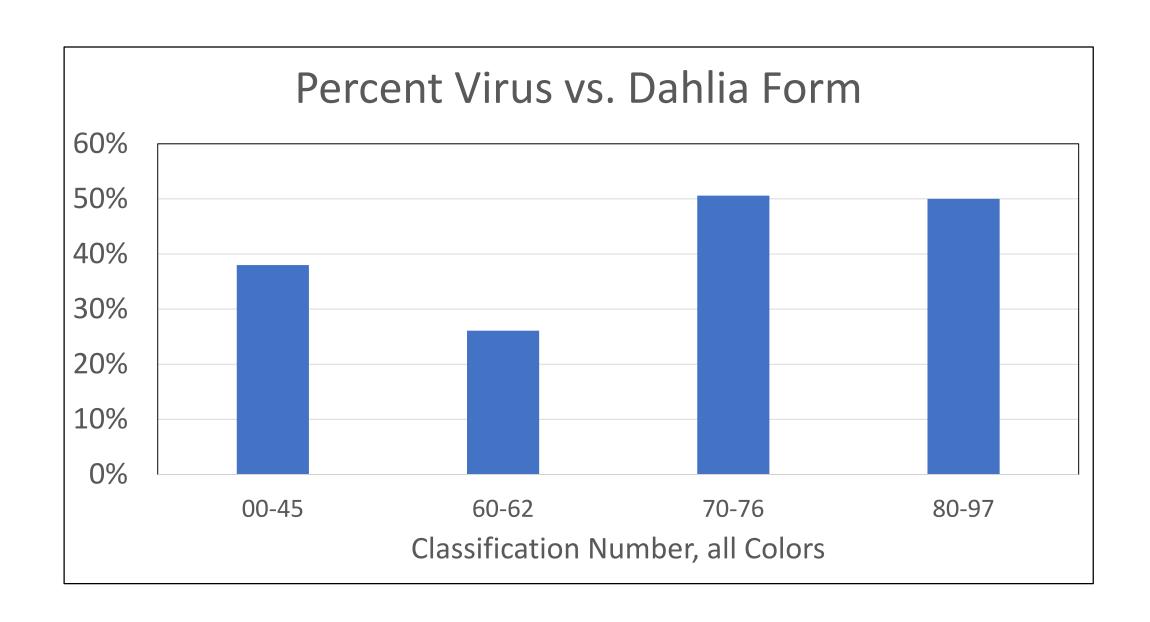


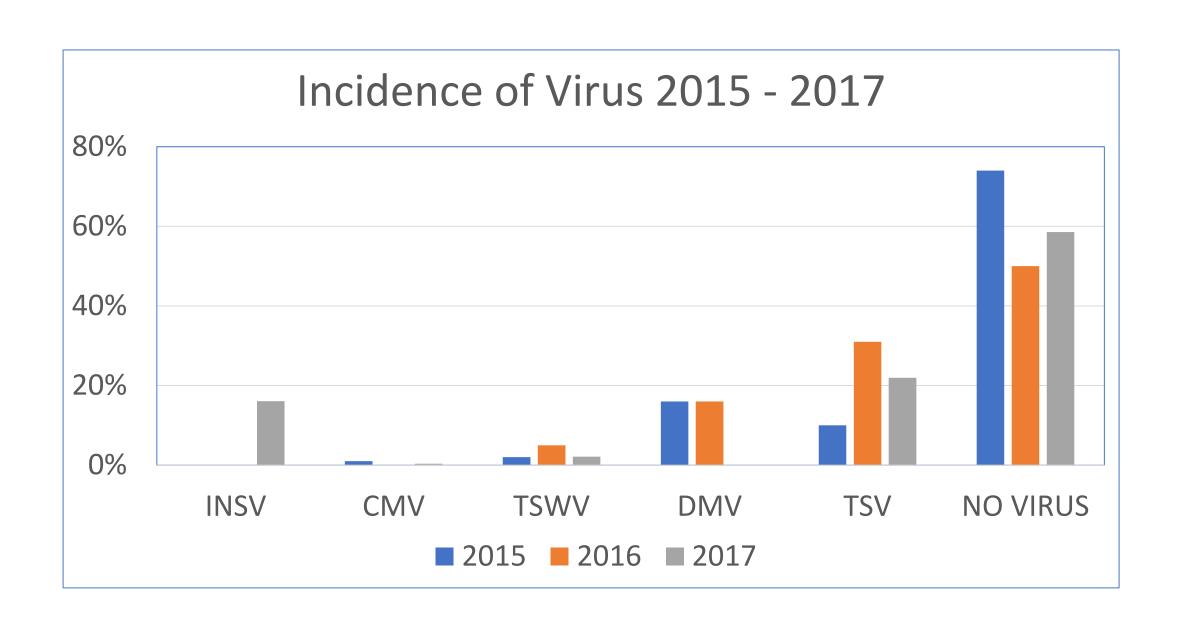












Bottom Lines

- Virus was Detected in about 41% of the 2017 Samples
 - INSV was Detected for the First Time
 - No DMV was Detected
- Plants from Known Good Stock (G1) Had Less Virus than Other Plants
- Virtually All Plants from Bad Stock Had Virus
- Plants with Excellent Foliage Had Less Virus
- Plants with Very Poor Foliage Had Much More Virus
- Gardens in the West Had Higher Incidence of Virus than the East or Midwest Gardens

Plan for 2018

- Emphasis on Dahlia Vendor Tests
 - Free Tests Sponsored by the Scheetz-Chuey Foundation through the ADS
 - Confidential Results but with the Expectation that the Vendor Will Use the Results to Improve the Quality of his Stock
 - Results Known by Prof. Pappu and the Lab Team, Ron Miner and Brad Freeman
 - Results Coded for the Virus Team and the ADS
- Ongoing Public Tests at 30 Samples for \$300
- Virus Team Projects Targeting Gx Samples, Controlled Environments, and Insect Vector Tests
- Laboratory Garden and Tests at WSU