

# Continental Dialogue on non-native Forest insects and diseases

## *Phytophthora ramorum* – A Nursery Perspective

27 October 2009

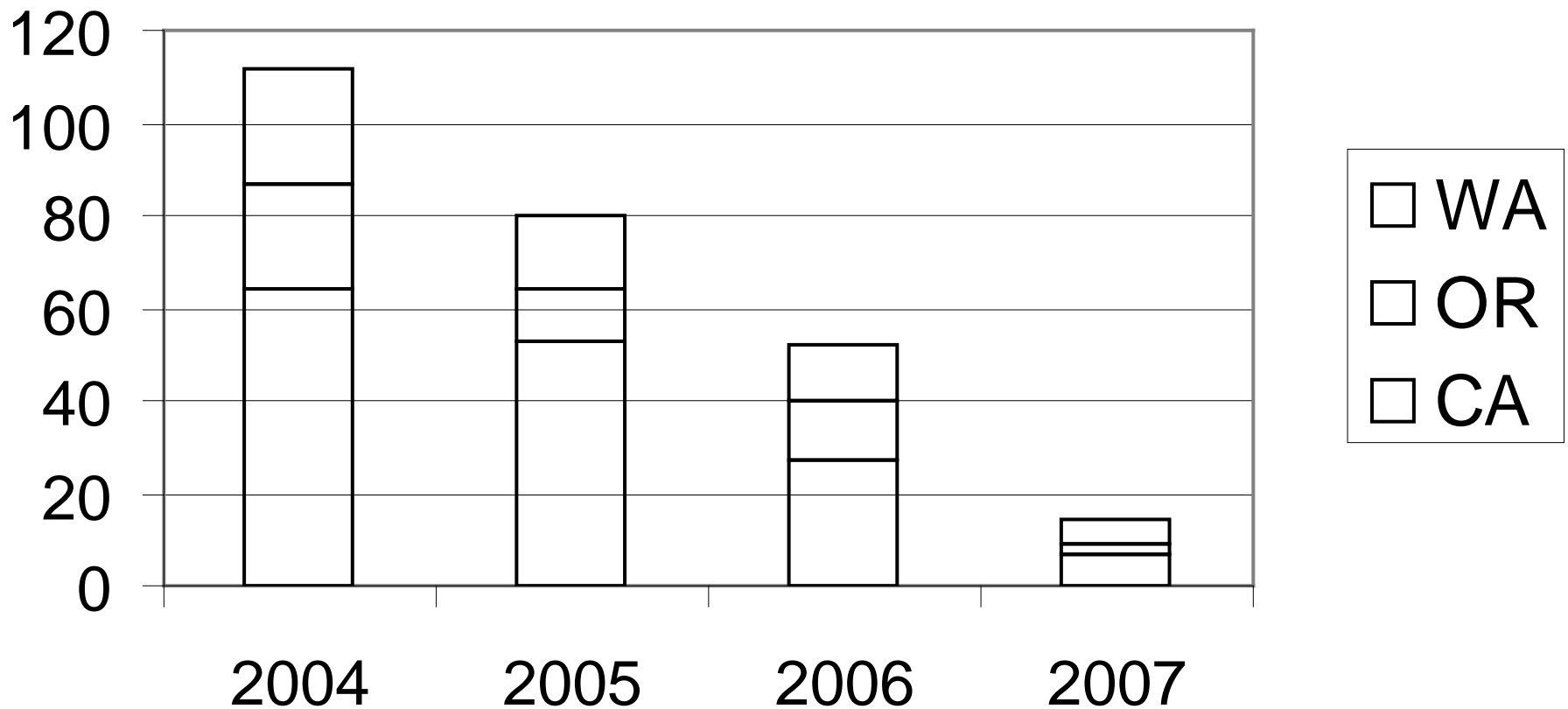
San Francisco, CA

Karen Suslow

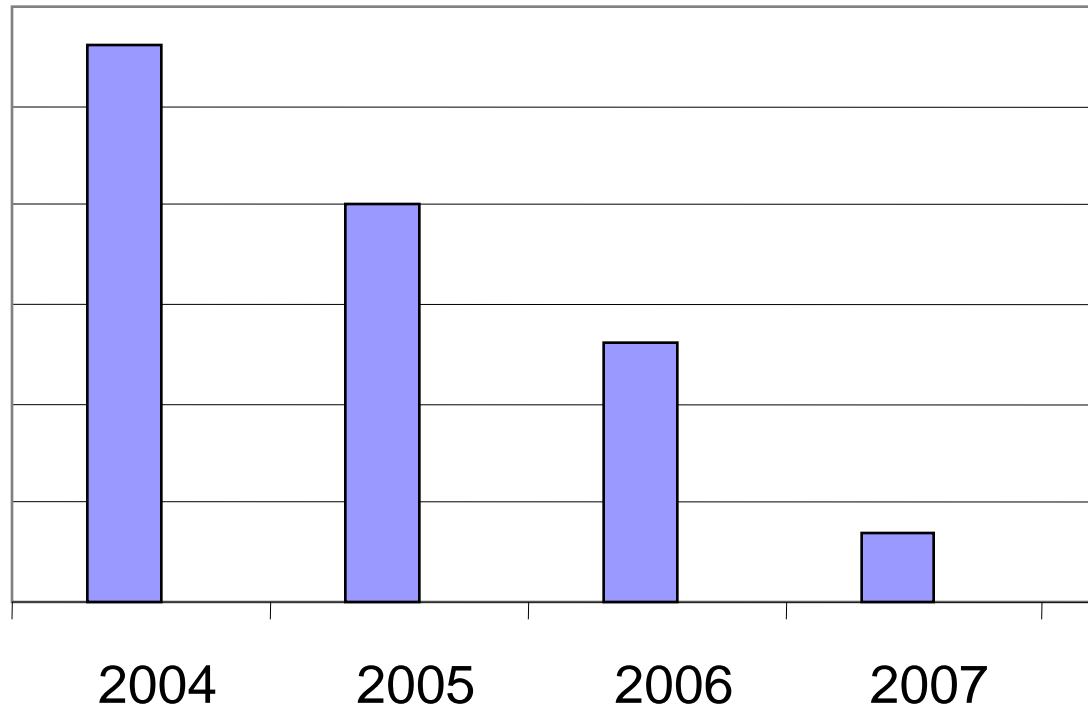
Hines Nurseries LLC



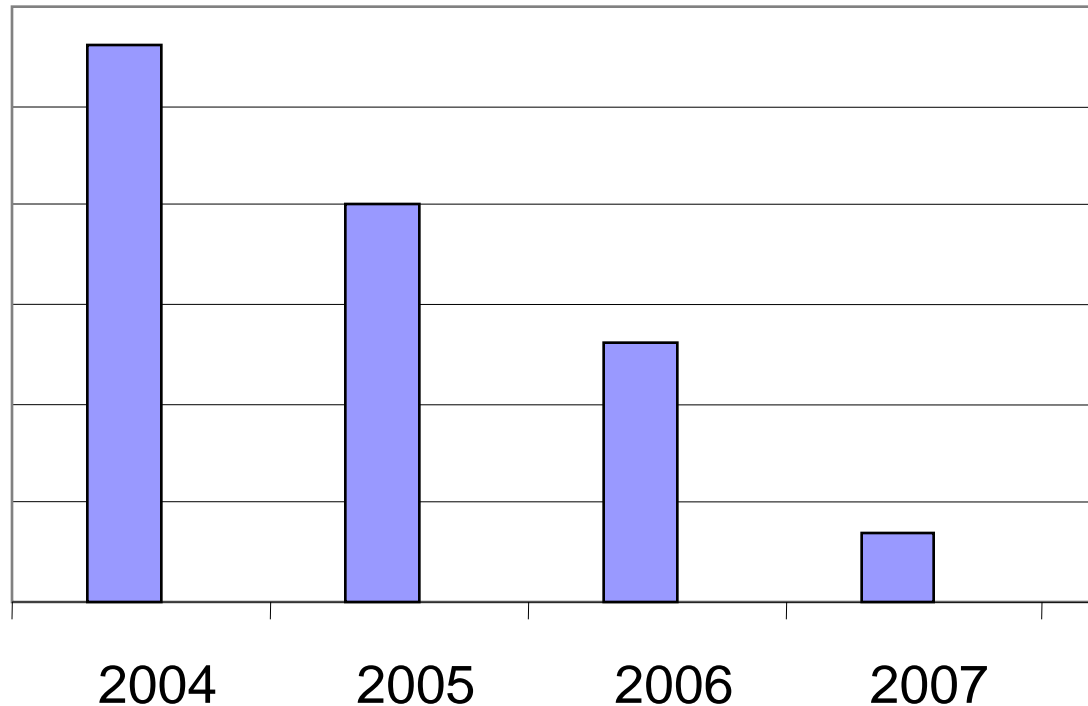
# West coast nurseries found to be infected with *P. ramorum* via nursery inspection/survey



# What factors influenced the decline?

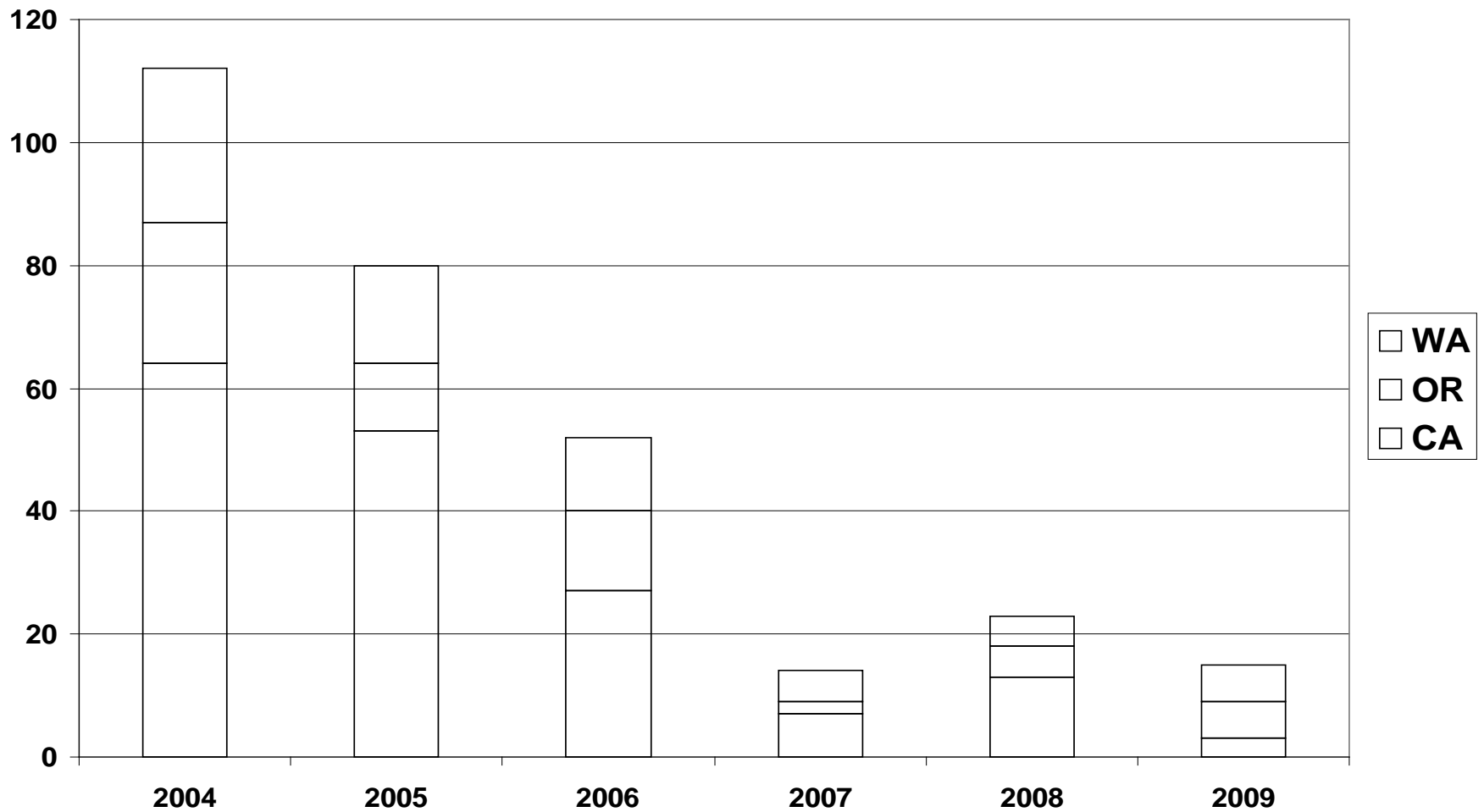


# What factors influenced the decline?

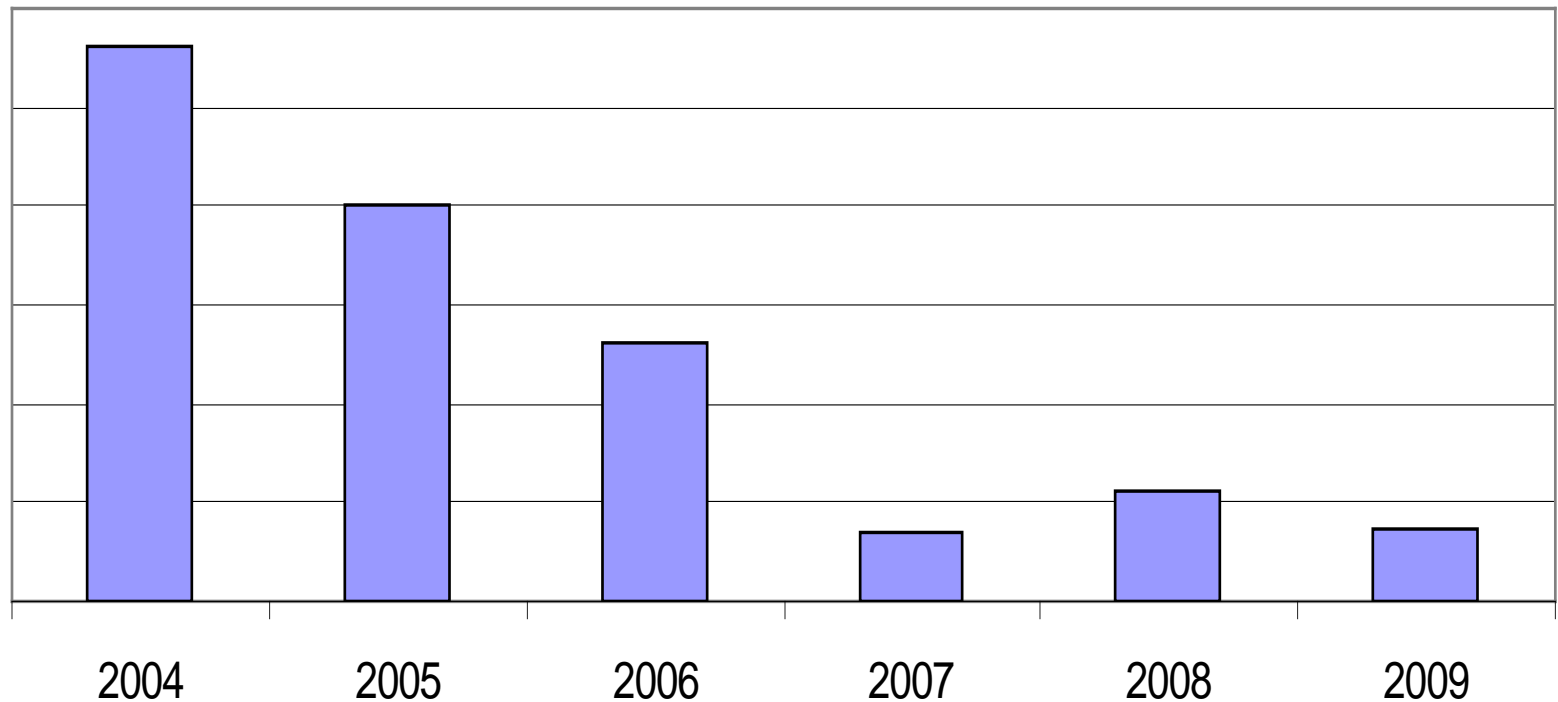


- Interim Rule
- Grower Trainings/Awareness
- Research

## West coast Nurseries found to be Infected with *P. ramorum* via nursery inspections/surveys

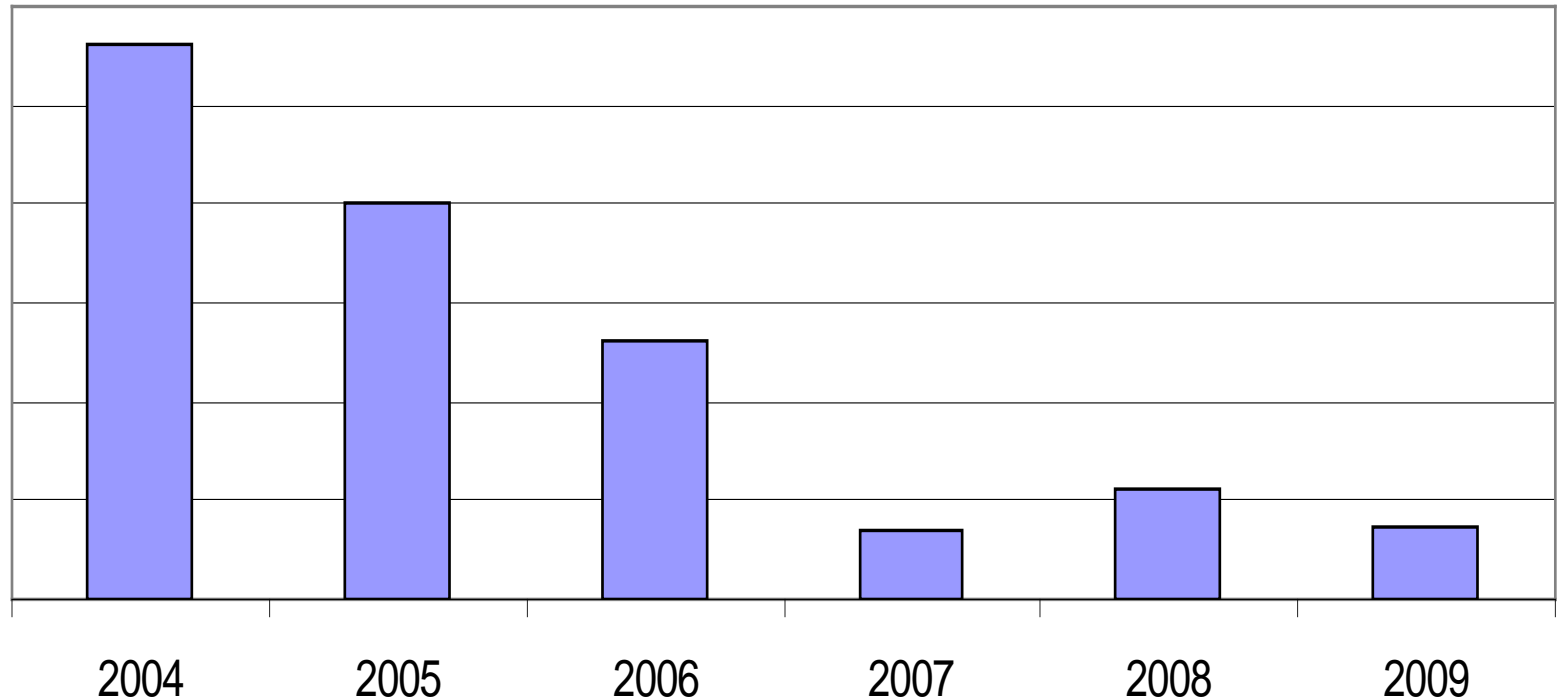


# What factors continue to influence the decline?





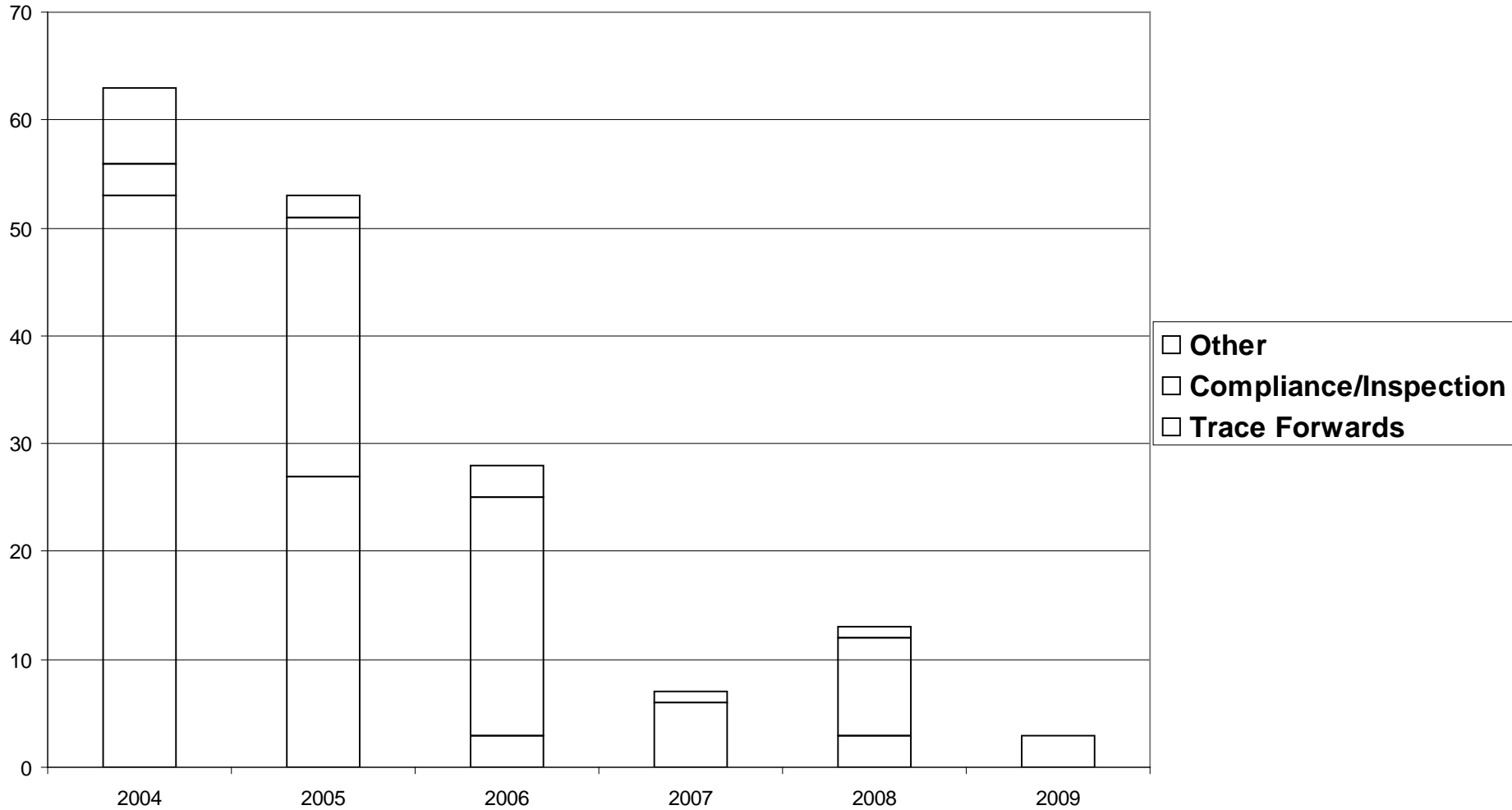
# What factors continue to influence the decline?



- Identification of the High Risk Plants
- Inspecting host plants when pathogen is most prevalent
- 2-3x/yr inspection of HR plants



## Positive CA Nurseries by Inspection Type



# Breakthroughs

- Increased awareness
- Better trained, experienced inspectors
- Detections made during surveys/inspections versus after the product shipped via trace forwards
- More comprehensive grower trainings
- Development of HRI/ANLA BMPs
- Development of GAIP

# Breakdowns

- Recurrent nurseries in the west
- Positive nurseries elsewhere in the country
- Recurrent nurseries in the east and southeast
- Positive waterways outside the west coast
- Aerial *Phytophthora* also inhabit rhizosphere

GAIP

BMP  
Pilot  
Program

## Mapping the Future

WA/OR/CA  
On-line  
Trainings

USNCP

NORS-DUC

GAIP

BMP  
Pilot  
Program

## Mapping the Future

All states with *P. ramorum*-infected nurseries need to ...

WA/OR/CA  
On-line  
Trainings

USNCP

NORS-DUC

# BMP Pilot Program

- Voluntary
- Identifies Critical Control Points in a nursery operation
- Risk Mitigation Measures
  - = HRI/ ANLA BMPs to prevent the introduction of *Phytophthora ramorum* into nursery operations
- Systems Approach
- Based on sound science
- 3rd party auditor is CDFA



# Grower Assisted Inspection Program

- Follows HACCP Systems Approach
- Identify Critical Control Points (CCP)
  - focus on four: Media, Used Containers, Water and Buy-ins
- Develops BMPs in support of CCP
- Creation of Mitigation Manual
- Focuses on reducing *Phytophthora* populations in a nursery
- 3<sup>rd</sup> Party auditor is ODA





# WA/OR/CA On-line Trainings

- *Phytophthora* on-line training course for nursery growers - OSU  
<http://ecampus.oregonstate.edu/workforce/phytophthora/>
- Training module on *P. ramorum* from WA state  
<http://www.puyallup.wsu.edu/ppo/resources.html>
- COMTF trainings  
[www.suddenoakdeath.org](http://www.suddenoakdeath.org)



# National Ornamental Research Site – Dominican University CA

- First research site to study invasive pests and diseases in a simulated nursery setting
- Farm Bill 2008 funding, administered through CPHST ... largest grant CPHST has ever awarded to a single organization in a one-year period
- Further validation of *P. ramorum* BMPs
- National and International support
- Future opportunities to study other quarantined pest in CA
- Regional applicability



# US Nursery Certification Program

- Harmonized with Canadian Nursery Certification Program
- Phytosanitary certification program for US nurseries to ship product into Canada
- Offers an alternative to standard phytosanitary certification
- Implements IPPC Standards
- Meets NAPPO Guidelines
- Comprised of:
  - Four site inspections
  - Creation of Production Manual
  - Documentation review

