

Perspectives on Horticulture and Pest Risk

**Craig J. Regelbrugge, Senior Vice President
AmericanHort CraigR@AmericanHort.org**



**Welcome
to the
U.S. of A!**



6/25/2017





American Hort

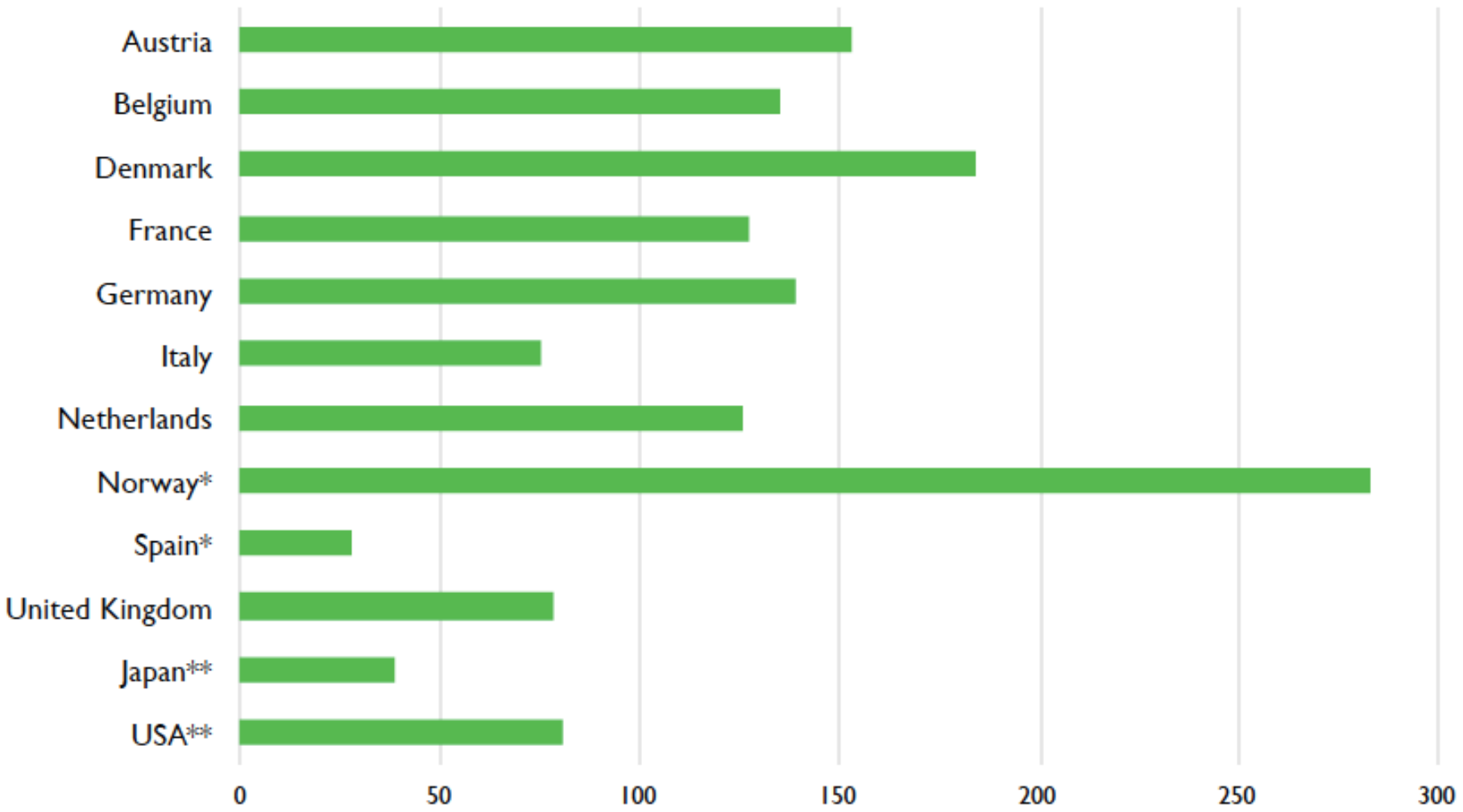


6/25/2017

Industry Overview

- Total industry output: \$196 B
- Farmgate value (plants): \$16.76 B
- Growing operations – 23,221 (USDA-2014)
- Hort crops produced in all 50 states
 - CA, FL, TX largest
- US Trends:
 - Size
 - Specialization
 - Market channels
 - Consumer spending

Per capita consumption of flowers, plants and related goods in EUR



* 2011, **2015, all other countries 2012

US and International Plant Trade

- All Plant Imports (2015): € 1,555,086,000
 - ~36% growth over 2008
 - Unrooted slips and cuttings nearly doubled 2015 vs. 2008
 - Orchid plants more than doubled
 - Other categories modest changes
- All Plant Exports (2015): € 349,418,000
 - 25% growth over 2008
 - Growth in some categories, e.g. fruit trees

Why Trade?

- New Variety exchange
- Young plants
- Finished plants



Horticulture, Trade, and Plant Pests:

Victim or Vector?





- US historic approach for “plants for planting” – generally permissive
- Animals vs. plants, knowns vs. unknowns
- Some shift over past 5 years, e.g. Not Authorized Pending Pest Risk Analysis (NAPPRA)

Nonnative forest insects and pathogens in the United States: Impacts and policy options

GARY M. LOVETT,^{1,12} MARISSA WEISS,^{2,3} ANDREW M. LIEBHOLD,⁴ THOMAS P. HOLMES,⁵ BRIAN LEUNG,⁶
KATHY FALLON LAMBERT,^{2,3} DAVID A. ORWIG,³ FAITH T. CAMPBELL,⁷ JONATHAN ROSENTHAL,⁸ DEBORAH G. MCCULLOUGH,⁹
RADKA WILDOVA,⁸ MATTHEW P. AYRES,¹⁰ CHARLES D. CANHAM,¹ DAVID R. FOSTER,³ SHANNON L. LADEAU,¹ AND
TROY WELDY¹¹

¹*Cary Institute of Ecosystem Studies, Box AB, Millbrook, New York 12545 USA*

²*Science Policy Exchange, Harvard Forest, Harvard University, Petersham, Massachusetts 01366 USA*

³*Harvard Forest, Harvard University, Petersham, Massachusetts 01366 USA*

⁴*USDA Forest Service, Northern Research Station, Morgantown, West Virginia 26505 USA*

⁵*USDA Forest Service, Southern Research Station, Research Triangle Park, North Carolina 27701 USA*

⁶*Department of Biology, McGill University, Montreal, Quebec H3A 1B1 Canada*

⁷*Center for Invasive Species Prevention, Bethesda, MD 20814 USA*

⁸*Ecological Research Institute, Kingston, New York 12401 USA*

⁹*Department of Entomology and Department of Forestry, Michigan State University, East Lansing, Michigan 48824 USA*

¹⁰*Department of Biology, Dartmouth College, Hanover, New Hampshire 03755 USA*

¹¹*The Nature Conservancy, New York State Chapter, Albany, New York 12205 USA*

Abstract. We review and synthesize information on invasions of nonnative forest insects and diseases in the United States, including their ecological and economic impacts, pathways of arrival, distribution within the United States, and policy options for reducing future invasions. Nonnative insects have accumulated in United States forests at a rate of

Horticulture and Risk-Based Sampling: Threat, or Opportunity?



6/25/2017

K-3048

RBS Reflections

- Inspection, regardless of limitations, is still primary line of phytosanitary defense
- Better targeting of limited resources is in our shared interest
- The devil was in the data collection, implementation details
- Deep concern regarding delays, maintaining cold chain, quality loss, product loss
- USDA-APHIS ultimately adjusted approach

Reflections...

- US in process of of implementing “single window” for trade
- USDA’s historic paradigm: **country/taxa**
- Customs and Border protection: **shipper**
- Integration may enable better deployment of inspection resources and efficient clearance for reliable shippers

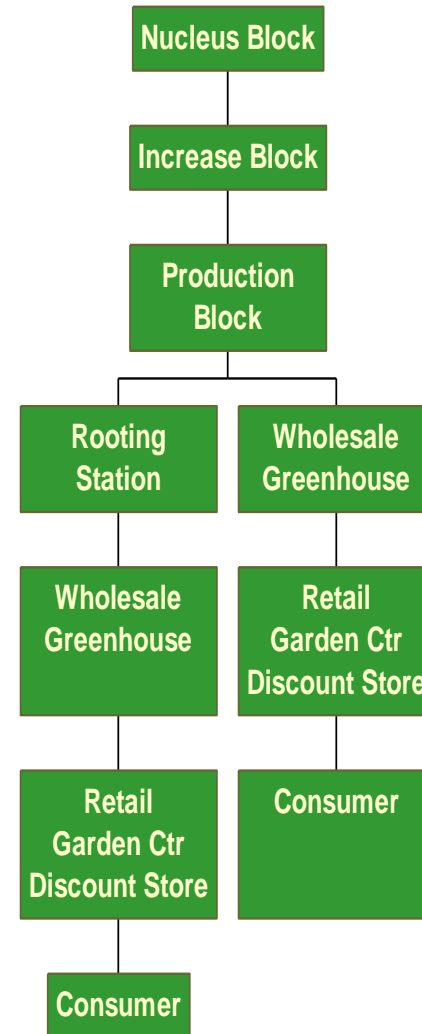


6/25/2017

Risk Mitigation at Origin

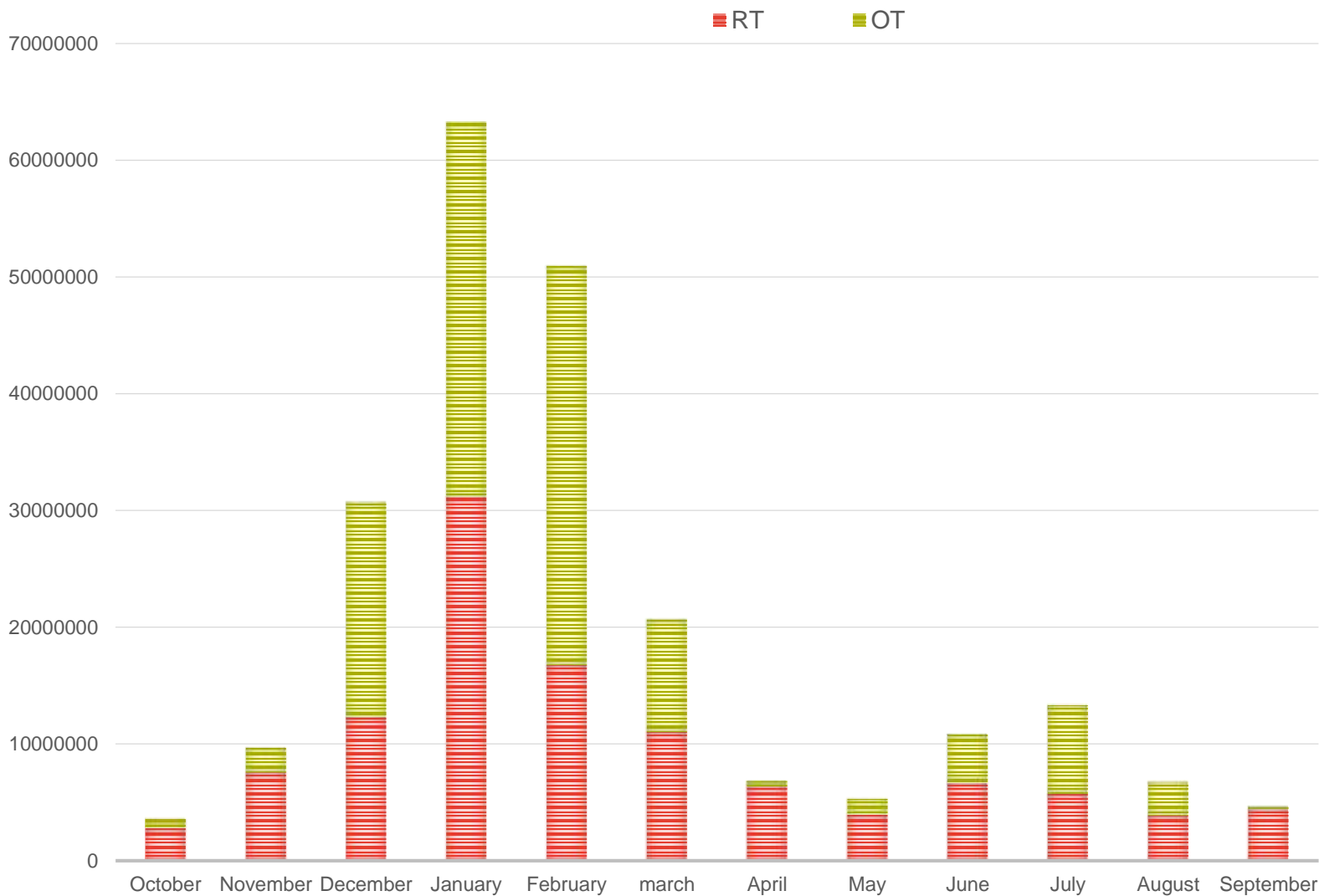


- Over one billion unrooted cuttings imported into US each year
- Critical element of supply chain
- Generally low risk
- Logistics challenges for APHIS, industry





FY 15 PLANT UNITS INSPECTED BY MONTH



Pilot Offshore Cert Program

- 4 leading producers, 6 countries
- Facilities must meet or exceed minimum standards for facility design, production, sanitation, traceability
- If pilot is successful, cuttings entering under program would be inspected at lower rate, expediting trade and “leveling the workload peaks”

Risk



Risk is the potential of gaining or losing something of value. Values (such as physical health, social status, emotional well-being or financial wealth) can be gained or lost when taking risk resulting from a given action or inaction, foreseen or unforeseen. Risk can also be defined as the intentional interaction with uncertainty.

en.wikipedia.org · Text under CC-BY-SA license



For the trade, it's all about...



UNCERTAINTY

