

# PROJECT STINKY

IPRRG's Effort to Prepare a Global Pest Risk Assessment for the Brown Marmorated Stink Bug (*Halyomorpha halys*)

Rob Venette, USDA Forest Service & IPRRG Co-Chair



# RATIONALE

- IPRRG (formerly the International Pest Risk Mapping Workgroup) embraces a workgroup philosophy.
  - Value in communication
  - Greater value in products (research, outreach, and education)
- Three major IPRMW/IPRRG products
  - “Pest risk maps for invasive alien species: a roadmap for improvement” Bioscience 2010
  - “Advancing risk assessment models to address climate change, economics, and uncertainty.” Special Issue of NeoBiota 2013
  - “Pest risk modelling and mapping for invasive alien species” CAB International, Wallingford, UK



# PHILOSOPHY

- International collaboration is useful:
  - Advance lines of research
  - Bring attention to ongoing work
- Participation in IPRRG projects is voluntary but valued
- Products show value of participation to administrators

# APPROACH

Solicit input from members

- Type
- Length
- Form

Offer "carrots and sticks"

Edit/integrate contributions

Coordinate:

- Reviews
- Revisions
- Publication

Chief  
"Cat Herder"

Member 1

Member 2

Member 3

Member 4

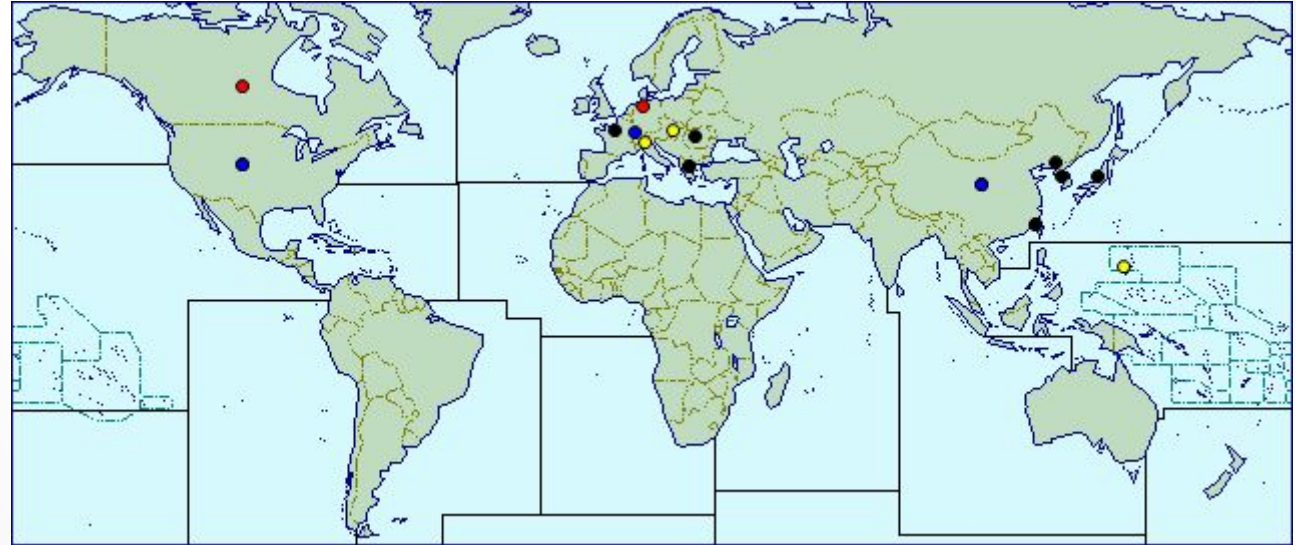
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Member x

Provide content  
Respond to edits revisions

# ORIGIN OF THE PROJECT

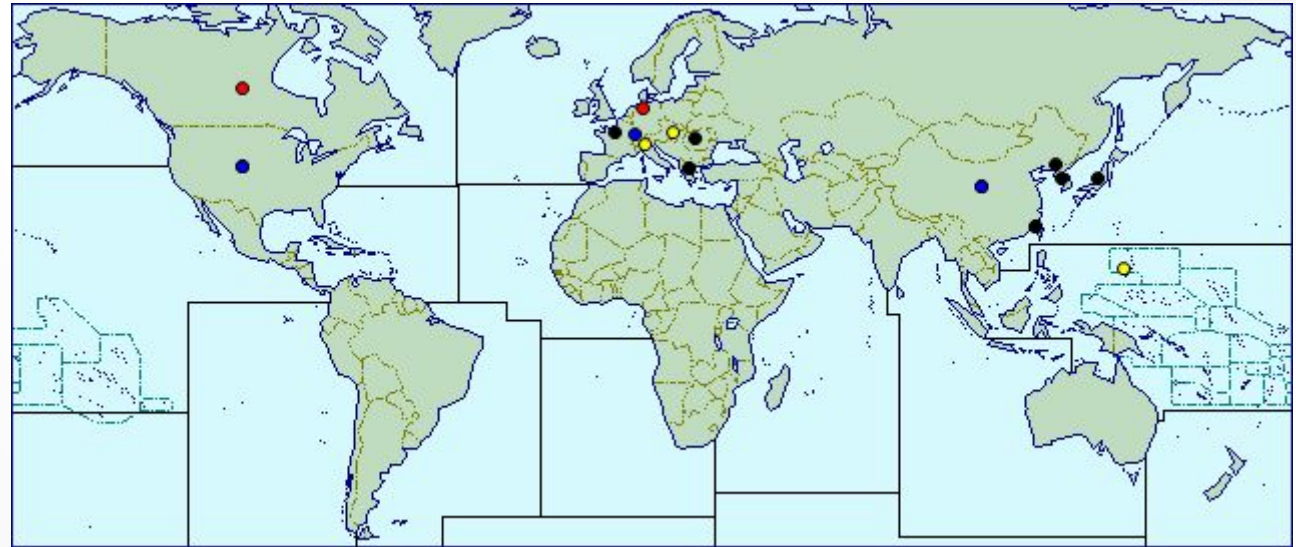
- “Project Stinky” emerged as a workgroup activity in August 2015 at the IPRRG meeting in Ft. Collins, Colorado, USA.
- Considered several alternative pests



Countries with *H. halys* (CABI, 2016)

# ORIGIN OF THE PROJECT

- “Project Stinky” emerged as a workgroup activity in August 2015 at the IPRRG meeting in Ft. Collins, Colorado, USA.
- Considered several alternative pests
- Selected *H. halys* because:
  - Affects agriculture and natural resources
  - Has invaded from eastern Asia into USA, Switzerland, Canada, France, Germany, Greece, Hungary, Italy, Liechtenstein, Romania, and New Zealand
  - Many other countries are concerned about this insect



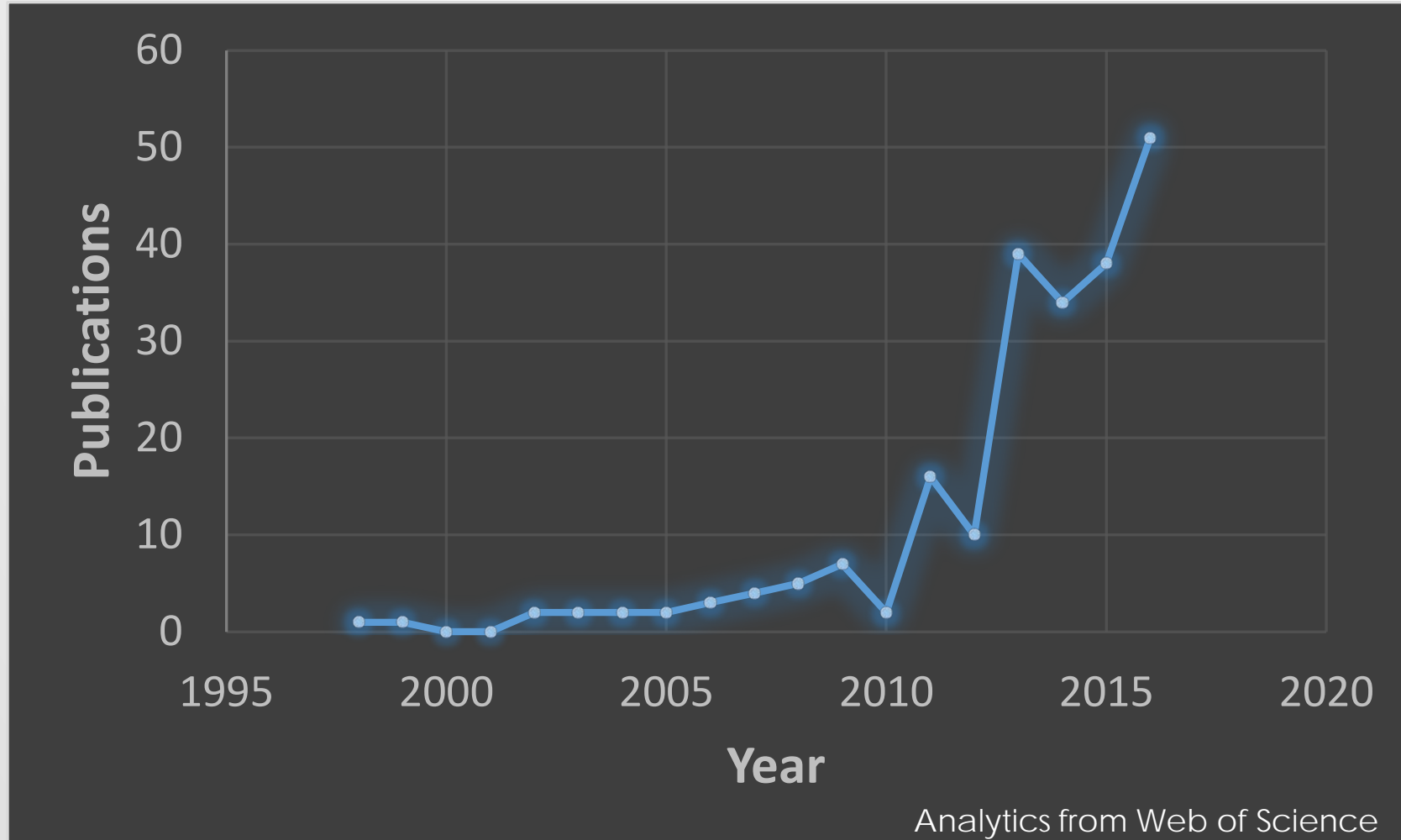
**Countries with *H. halys* (CABI, 2016)**



# *H. HALYS* ADULT AND DAMAGE



# PUBLICATIONS ON BMSB CONTINUE TO INCREASE, AS DO QUESTIONS





# OBJECTIVES FOR PROJECT STINKY

- Produce pest risk models and maps to assess the global threat posed by *H. halys* to agriculture, natural resources, and human welfare.
- Illustrate how thinking and modelling about pest invasion evolve as new information becomes available.
- Share insights about the modelling and mapping process with new pest risk analysts.
- Deliver map products and training opportunities based on *H. halys* to developing nations and others

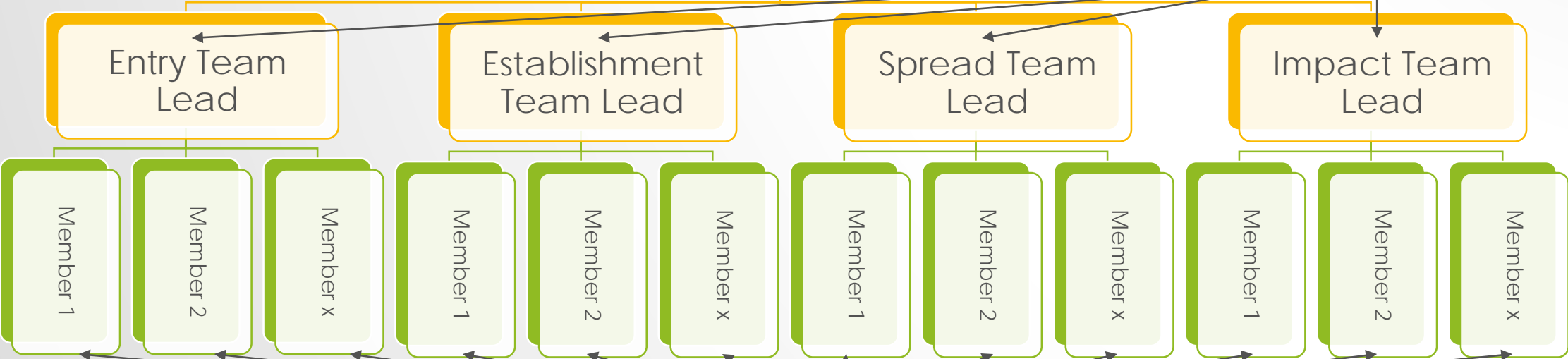


# APPROACH

- Coordinate:
  - Reviews
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Chief "Cat Herder"

- Solicit input from members
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- Offer "carrots and sticks"
- Edit/integrate contributions



- Gather data
- Perform analyses
- Write summaries
- Respond to edits revisions

# TEAMS

- **Entry** – Dean Paini
  - Martin Damus
  - Manuel Colunga-Garcia
  - Hanno Seebens
  - Joha Tuomola
- **Establishment** – Senait Senay & Richard Baker
  - Catherine Jarnevich
  - John Kean
  - Sunil Kumar?
  - Amy Morey
  - Craig Philips
  - Mariona Roige
  - Helen Sofaer
  - Ursula Torres
  - Rob Venette
  - Sue Worner
- **Spread** – Yu Takeuchi & Christelle Robinet
  - Dave Bartels
  - Salla Hannunen
  - Audrey Lustig
  - Sunil Kumar?
- **Impacts** – Darren Kriticos
  - Kevin Bigsby (no longer)
  - Alan Burnie (no longer)
  - Dominic Eyre
  - Kylie Ireland
  - Frank Koch
  - Marona Rovera
  - Denys Yemshanov

# CHALLENGE OF THIS PROJECT

- Involves significant new work
  - Most members are already busy
  - Many members are not in charge of own work assignments; IPRRG projects may not be a priority for member organizations
- Many changes in personnel
- Projects can develop slowly
  - No progress to report yet from Entry or Spread teams
- *H. halys* is an active research topic for some IPRRG members
  - Avoid competition with IPRRG
  - Find ways for IPRRG to complement individual efforts

# ORIGINAL TIMELINE

- **2016** (This meeting) – Draft models presented to group. Receive reviews and comments.
- **2017** – Models completed. Work to integrate models from sub-teams begins.
- **2018** – Results are integrated into training exercises for pest risk modelling and mapping.
- **Actual Accomplishments** - One paper published, one paper submitted.



# GOALS FOR TODAY

- Address any questions on Project Stinky
- Hear about research on *H. halys* from IPRRG team leads and others.
- Provide initial feedback on progress
- Identify those who are willing to contribute
- Discuss how progress could be made at the meeting and/or identify new workgroup activities





PLEASE FEEL FREE TO CONTACT ME

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