Insecticide Resistance Action Committee

MSU/IRAC Resistance Database WG

Brad Hopkins and Tessa Knox

Country/Subject Groups

- Co-chairs – Brad Hopkins (12-13), Tessa Knox (12-13)
  - Transition from Gary Thompson

- U.S. Leads – Brad Hopkins, Caydee Savinelli, John Imaraju, & Dan Vincent

- EU Team – Verity-Laura Paul, Ralf Nauen & Tessa Knox

- Malaria Vectors – Tessa Knox

- Brazil – Luis Pavan

- Australia – Paul Downard

- **Philippines – Florinda Vasquez**

- **Other public health vectors? – Mark Hoppe**

IRAC

Survey of IRAC Members

- Confusion over differences between MSU and IRAC resistance databases

- Improvements needed, particularly for the IRAC database
  - Searchable data with filters

- Need to have an overall update from Mark at the end of each season

- We really don't have enough data to support an interactive map feature

IRAC

Discussion with Mark Whalon, MSU

- The databasing system they use is extremely outdated
  - Upgrade to new platform on Cloud
  - Much easier to update and make changes and much less expensive
  - One-time fee of $20,000 to upgrade

IRAC

Changes to Database

- Split-screen with MSU database on one side and IRAC database on the other
  - Equal billing of both databases
  - Clear explanation of each database
- "Call out buttons" to improve searchability
  - Status
  - Impact
  - Species
  - Location
  - IRAC MOA (both number and name!)

IRAC

Changes to Database

- "State of the State" report each year to update IRAC on status of resistance and important changes from year to year

- Contract with expected outcomes
  - Mark was not opposed to making a contract outlining expected outcomes for the upgrades to the database that must be completed to receive the funding

Increase in Funding

- Currently, IRAC-US and IRAC International pay Mark Whalon $15,000 per year to maintain the Resistance Databases and publish their Resistance Newsletter
  - Alternated $5K and $10K between IRAC groups
- Mark has requested and increase to $17,500 this year and $20,000 for years beyond

IRAC

Decisions

- One-time funding of $20,000 for upgrade of database to new platform and to make the requested revisions

- Increase in yearly funding from $15,000 per year to $17,500 this year and $20,000 for each year after that

IRAC