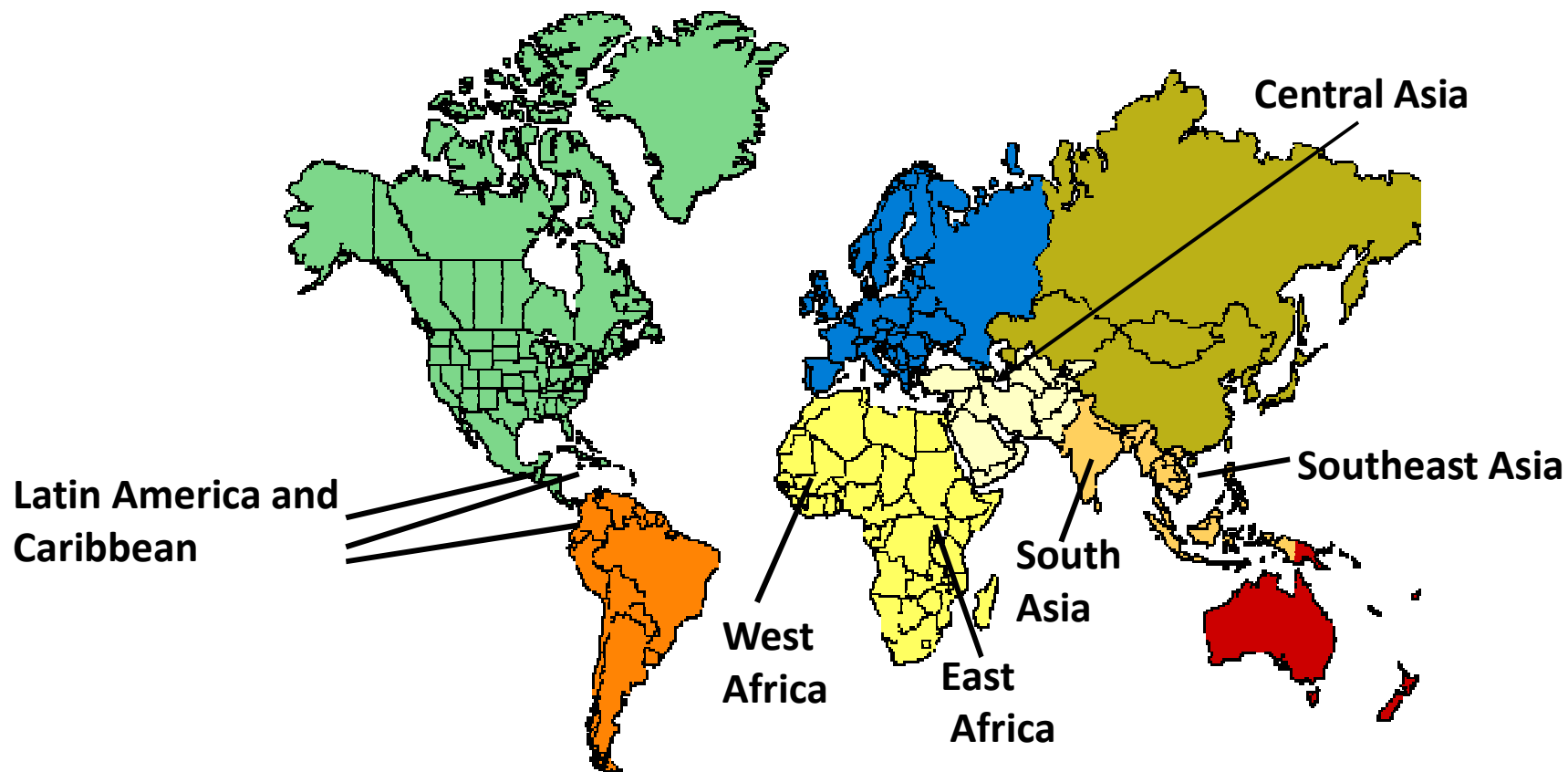




International Plant Virus Disease network IPV-CRSP Global Theme in 2009-2014 One Project - 6 Regions – 19 countries



Latin America and Caribbean

- “ Jamaica - CARDI
 - . Trained 2 Ph.D. students in virology
- “ Guatemala - UVG
 - . Now training M.S. student at Arizona on sweet potato viruses
- “ Honduras – collected virus data over time in tomato and pepper. Capacity at Zamorano
- “ Dominican Republic – built lab at IDIAF
- “ Ecuador – started new project with new Ph.D.

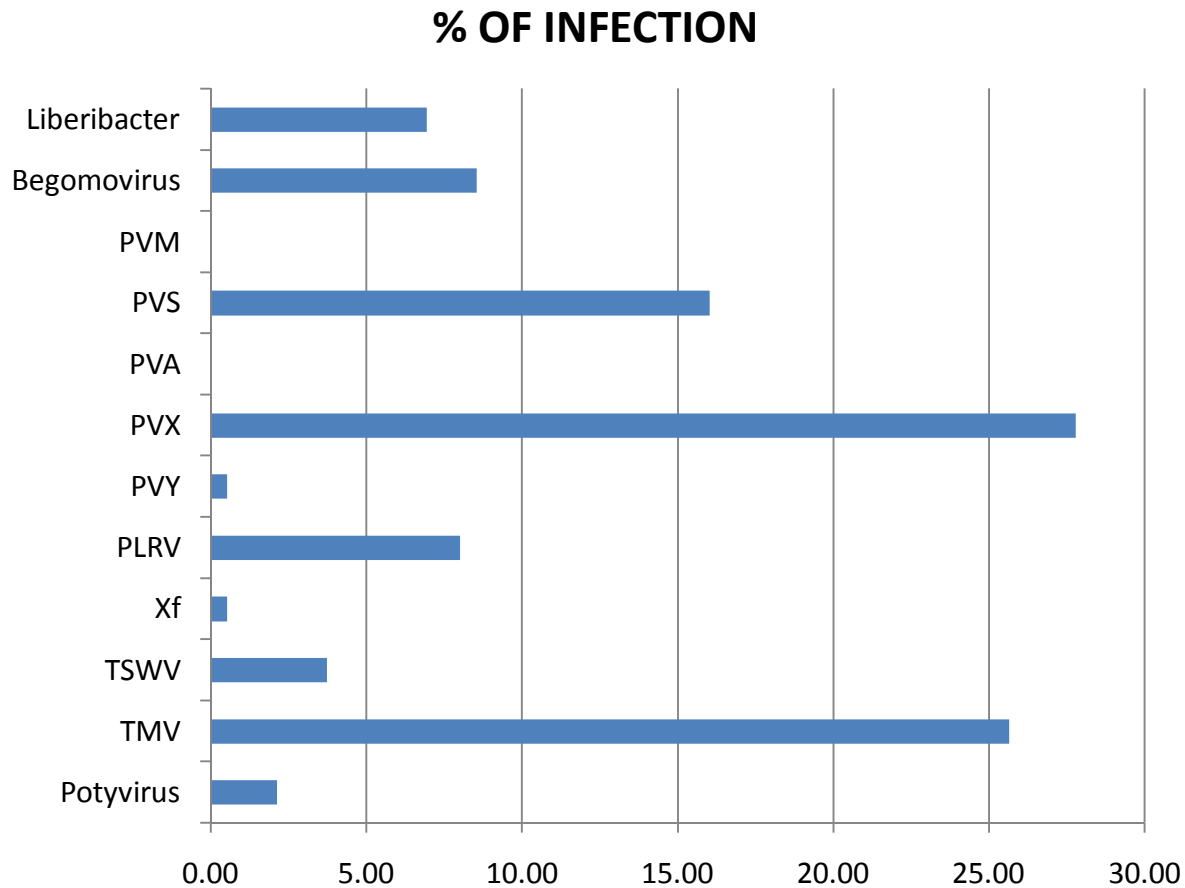
viruses in Tomato in Guatemala

- “ Thrips-transmitted tospovirus
 - . *Tomato spotted wilt virus*
- “ Whitefly-transmitted viruses
 - . 8 or more Begomoviruses
 - . *Tomato chocolate spot virus* (Torradovirus)
- “ Aphid-transmitted
 - . Potyvirus genus
 - “ *Tobacco etch virus*
 - “ *Pepper mottle virus*
 - “ Others identified only to genus only
 - . Cucumovirus (CMV)
- “ Mechanical transmission, spread by contact
 - . *Tobacco mosaic virus, Tomato mosaic virus*
- “ Seed-transmitted viruses
 - . Tobacco mosaic virus,



IPM Since 1994
Virus since 2005

Diagnoses of pathogens infecting tomato and potato in Western Highlands of Guatemala.



Ecuador

- “ Survey for common viruses tomato, green pepper, tree tomato, rice and sweet potato, as well as the vectors responsible for virus dispersion.
- “ Centro de Investigaciones Biotecnológicas del Ecuador (CIBE), Guayaquil-Ecuador
 - . E. Peralta, L. Espinoza, Diego F. Quito-Avila
 - . Began in 2012