



NEPPO

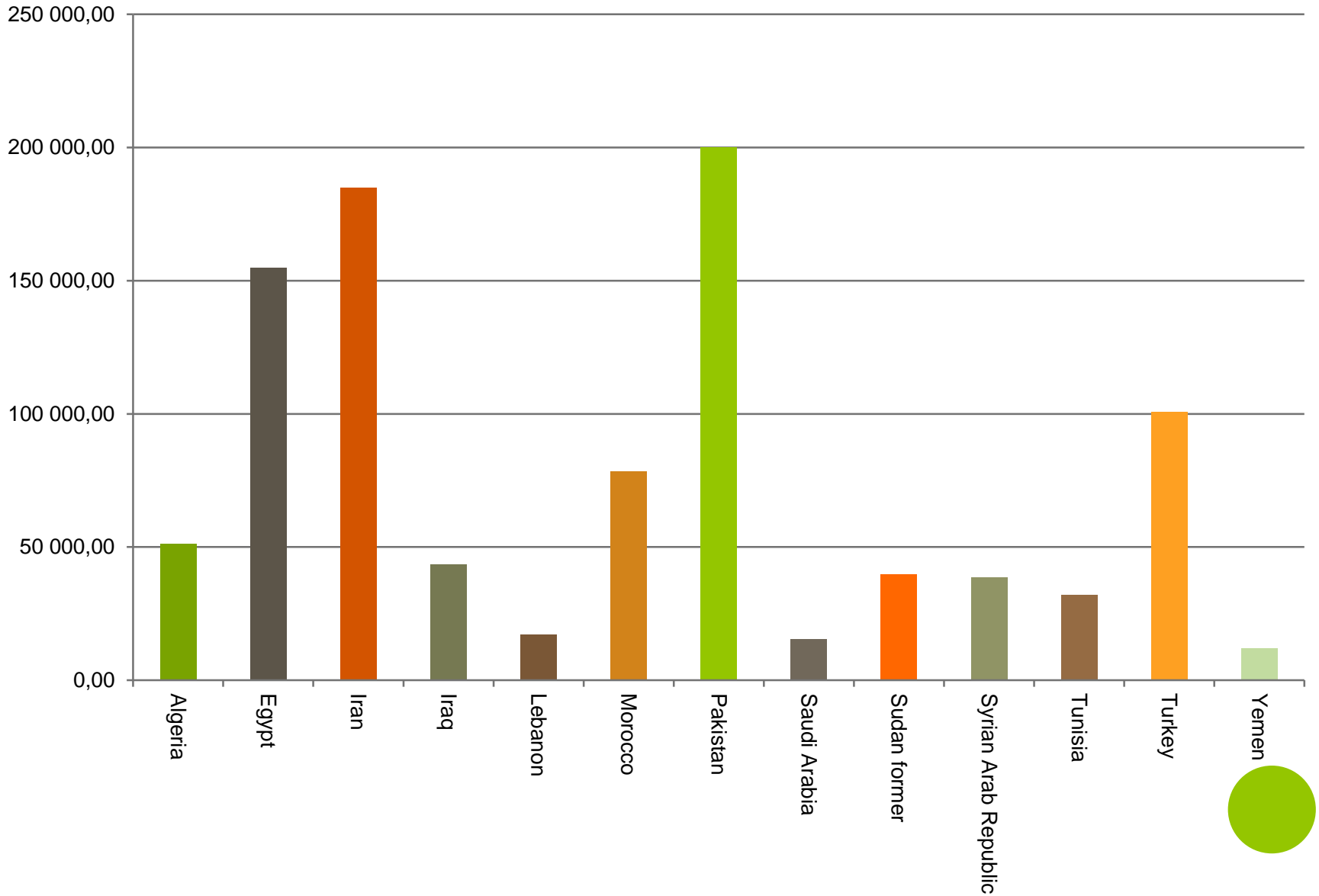
منظمة وقاية النباتات للشرق الأدنى
NEAR EAST PLANT PROTECTION ORGANIZATION



SEMINAR ON THE THREAT OF HUANGLONGBING DISEASE TO THE NEAR EAST AND MEDITERRANEAN CITRUS PRODUCTION

Agadir, Morocco, 1 November, 2013

Citrus fruit (ha), Total (FAOSTAT, 2009)

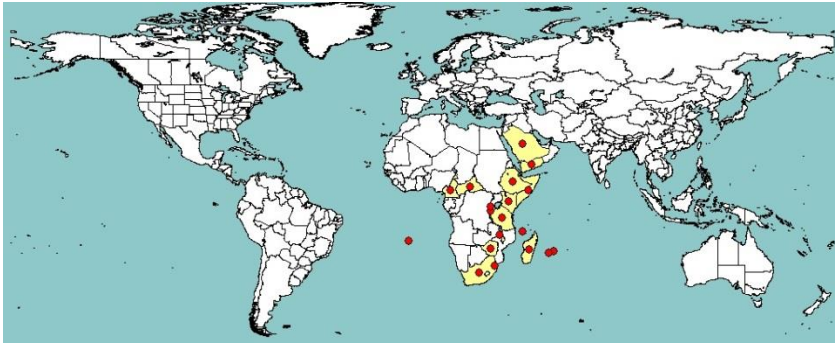


HUANGLONGBING DISEASE: *CANDIDATUS LIBERIBACTER SP*

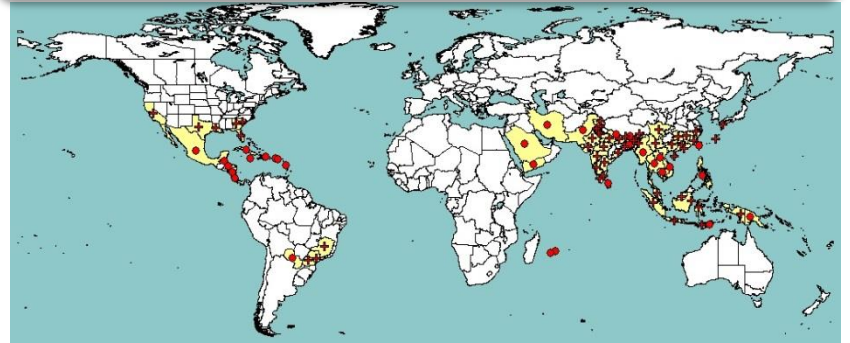
- 3 species of bacteria:
 1. *C.L. asiaticus* (/D.c.)
 2. *C.L. africanus* (/T.e.)
 3. *C.L. americanus*
- 2 Vectors
 1. *Diaphorina citri* (Asian Citrus Psyllid)
 2. *Trioza erytreae* (African Citrus Psyllid)
- *Very severe symptoms on Citrus*
- *Little resistance or tolerance in any species*



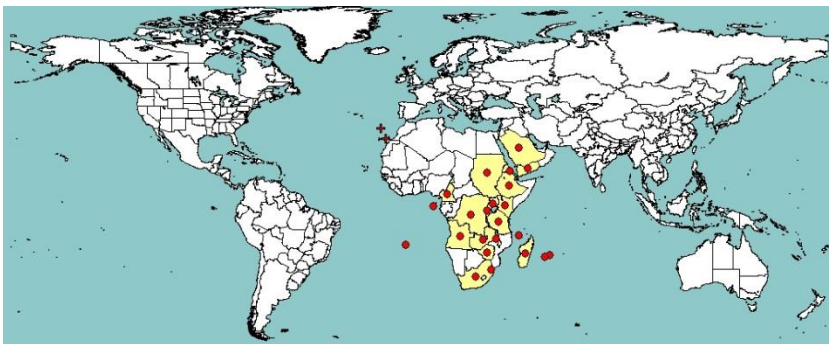
Candidatus Liberibacter africanus



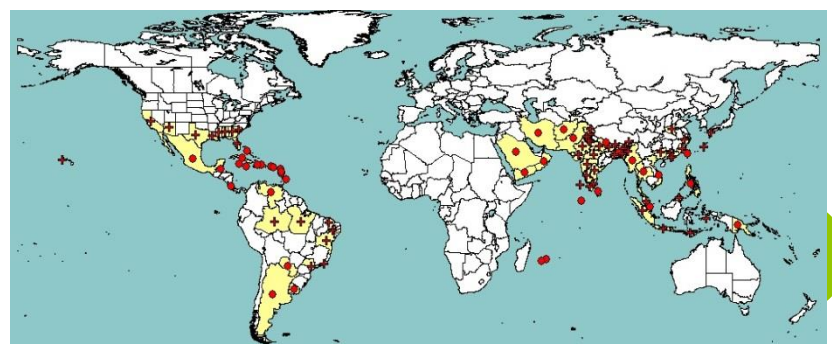
Candidatus Liberibacter asiaticus



Trioza erytrea



Diaphorina citri



PROGRAM

| Time | | Facilitator |
|----------------|---|--|
| 9 :00 – 9 :05 | Opening | |
| 9 :05 – 9 : 50 | Situation of HLB in COSAVE region | Pablo Cortese SENASA. Argentina, COSAVE |
| 9:05 – 10:10 | Situation of HLB in OIRSA region | OIRSA (NEPPO on Behalf of) |
| 10:10- 10: 30 | Coffee break | |
| 10:30- 10:45 | Situation of Trioza erytreae in Canaries Islands | Dr. Estrella Hernandez Suárez Dpto. Protección Vegetal Instituto Canario de Investigaciones Agrarias. Iles Canaries. Espagne |
| 10:45- 11: 10 | Threat of HLB in the Mediterranean region | Dr. María M. López Instituto Valenciano de Investigaciones Agrarias, Espagne |
| 11:10 -12:30 | Discussion | |
| 12:00 | Closure | |



Thank you

This is your seminar.

**Do not hesitate to interact and
to ask all deemed relevant
question or clarification**

