Branched Broomrape Informational Virtual Tomato Meeting – Regulatory Update

ZACH BAGLEY, CALIFORNIA TOMATO RESEARCH INSTITUTE
530-405-9469
ZACH@TOMATONET.ORG

www.tomatonet.org/branchedbroomrape
Broomrape: What are we up against?

1. DISEASE MGMT (F3+)
2. VIRAL MGMT (TSWV, BCTV)
3. AUTOMATION (TRANSPLANTING THEN CULTIVATION)
4. WEED MGMT (BINDWEED)
5. RKN & STINKBUG
6. SOIL HEALTH
7. WATER & NUTRIENT MGMT
8. GENETICS
Broomrape: What are we up against?

- Documented up to 80% crop loss in heavily infested areas globally;
- Prolific seed producer;
- Longevity in the soil;
- Extensive suitable host range that overlaps with our economically important rotational crops;
- No findings to date of easily transferable resistance genetics;
- Methods of control used elsewhere costly, unproven, and use currently unregistered chemistries;
- CDFA Class A Quarantine level pest;
Broomrape: What is our history with this pest?

- 1960’s to 1980’s control and eradication program for Branched broomrape in coordination with CDFA, County Ag Commissioner’s and Industry;
- Egyptian broomrape finds and eradication (2014 & 2016);
- Branched broomrape recent re-emergence;

This pest will not go away without aggressive and coordinated effort.
Broomrape: What’s Possible?

Phases of Invasive Species Invasion and Control

- **Proactive**
  - Action should begin here,
  - Eradication feasible

- **Active**
  - Eradication requires intense effort

- **Reactive**
  - Manage and control local infestations

- **Introduction**
  - First occurrence
  - Scattered locations

- **Early recognition**
  - Numerous locations
  - At or near biological potential

We are here.
Broomrape: CA Tomato Industry Efforts?

1. CTRI directing $s towards research;
2. Inclusion into Federal Crop Insurance;
3. Emergency use allowance (by regulatory bodies) for proven methods which will meet a performance standard of eradication;
Questions?

530-405-9469
zach@tomatonet.org