

**CLFP Ag Production  
Committee  
Meeting:**

**Broomrape Update**

December 12, 2023

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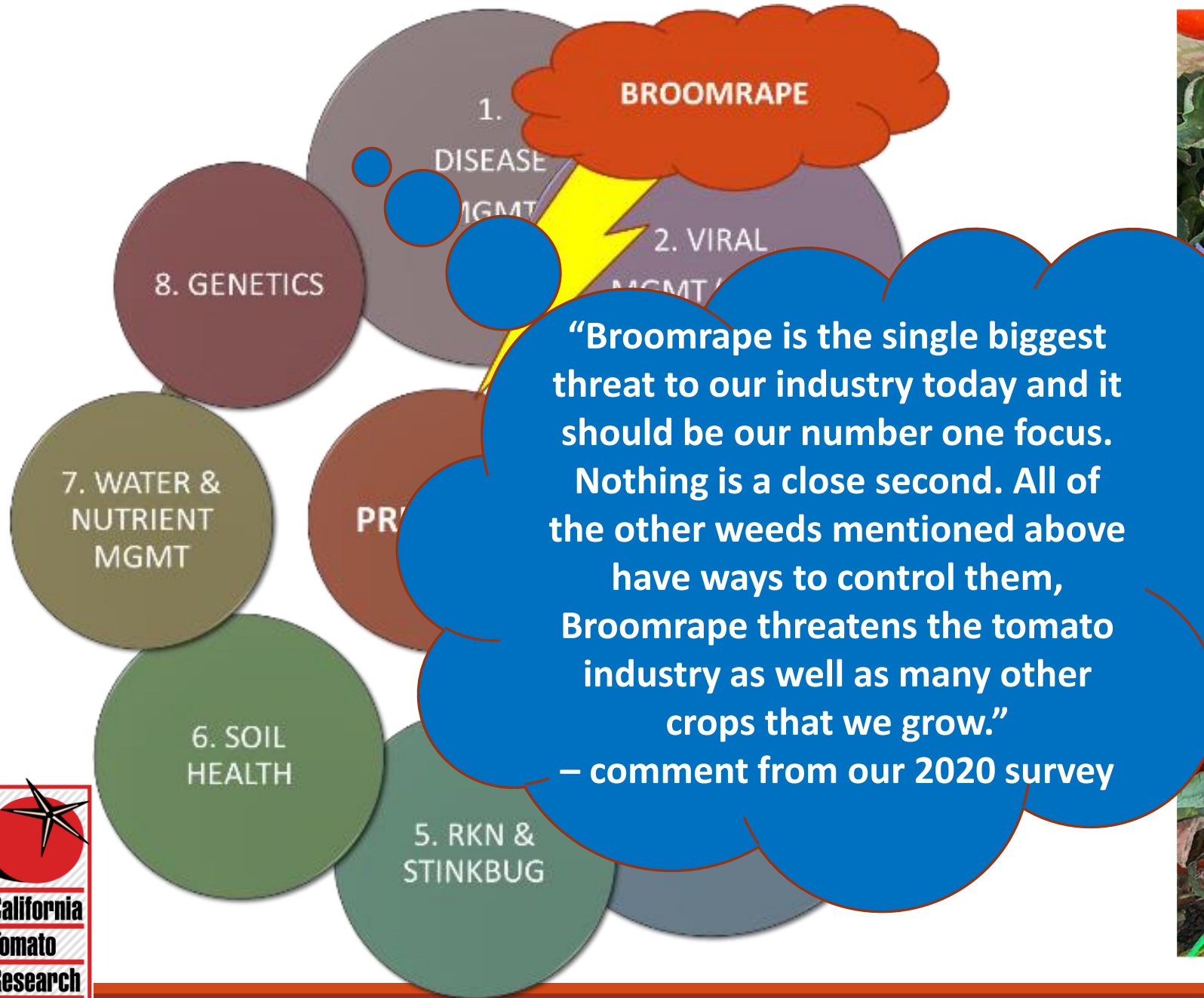




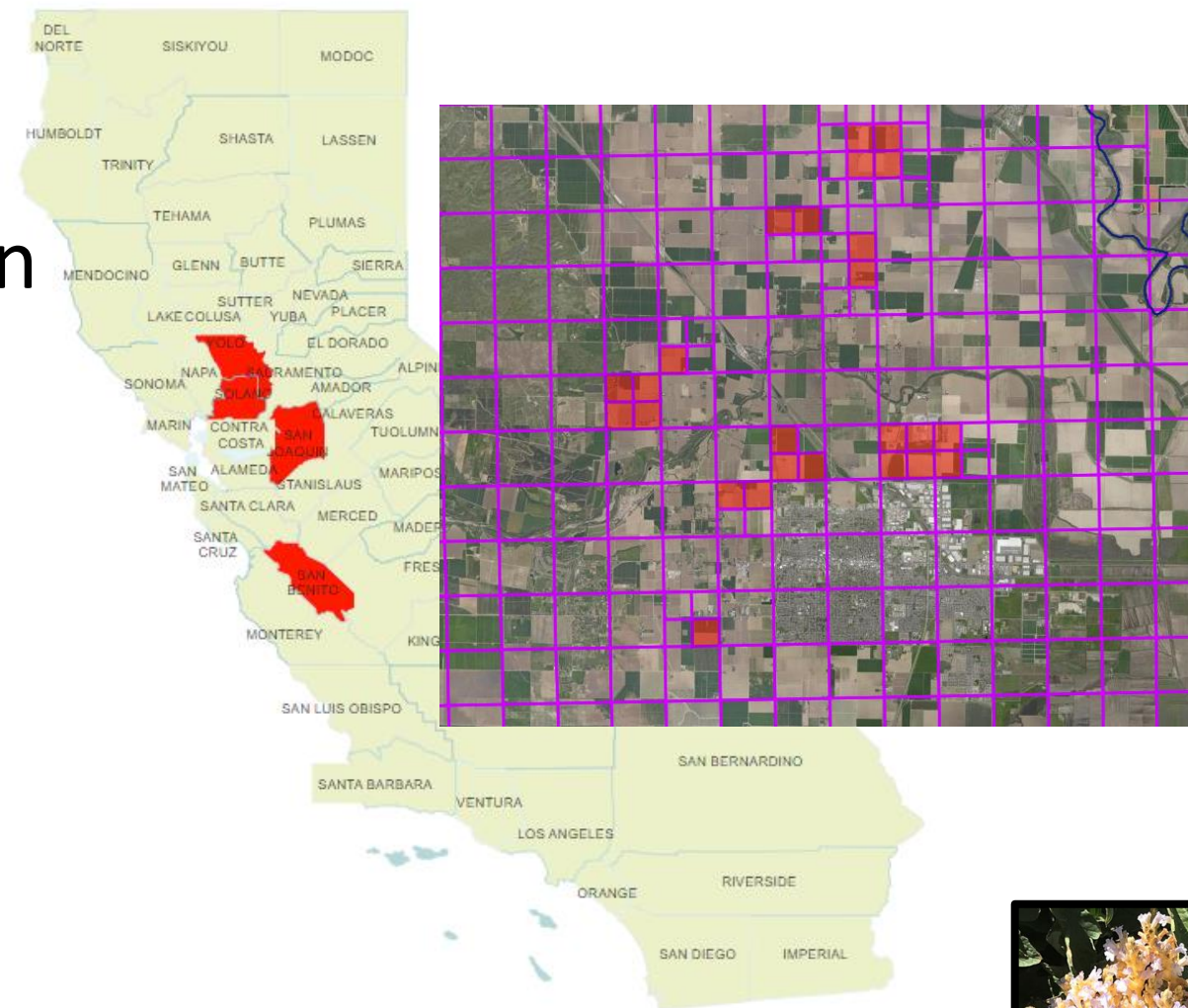


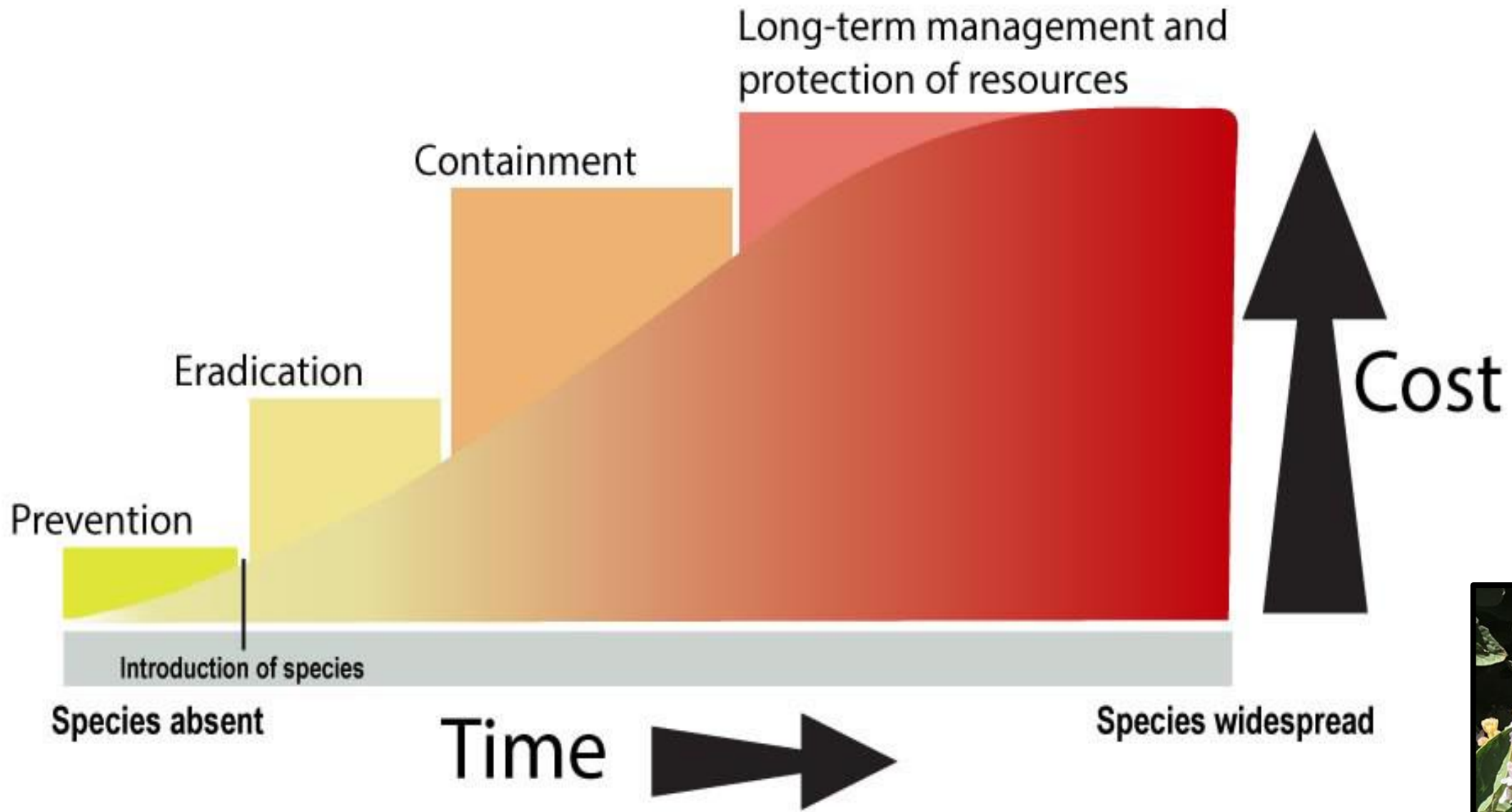
Photo Credit: Dani Zamir



# Broomrape: Known Extent

- 2009 – San Benito County;
- 2014 – San Joaquin County;
- 2014, 2016 & 2021 – 3 finds in Solano County, all within 2 miles;
- 2017-2022: 22 fields across 9 operations - all but 1 within a 5-mile radius of Yolo;
- These 9 impacted operations cover ~18,000 tomato acres annually and delivered to a combined 10 facilities





# Broomrape: What can be done?

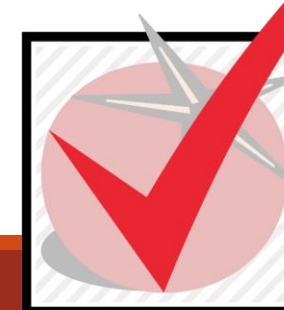
- **Sanitation, detection, and delineation**  
**BMPs** with growers and processors continue
- **24(c) application for Matrix chemigation.**
- Support continued **research.**
- **Broomrape Control Program Legislation –  
AB 402**



# CTRI: 2024 BROOMRAPE RESEARCH

**2024 TOTAL AFTER FINAL BOARD DECISIONS: \$368,066**

Broomrape Containment, Control and Management		Research Lead	Institution
2020 Start	Broomrape: Devt. of Long Term Mgmt. Options: CA Commercial Field Conditions & Contained Research Facility Ongoing Work	Brad Hanson	UC Davis
2020 Start	Broomrape: Devt. of Long Term Mgmt. Options: Chilean Commercial Field Conditions *	Brad Hanson	UC Davis - Chile
2021 Start	Developing best equipment sanitation practices for broomrape and other high-profile soil borne pathogens; to mitigate field-to-field spread	Cassandra Swett	UC Davis
2022 Start	Determining the population structure of <i>Phelipanche ramosa</i> and <i>Orobanche aegyptiaca</i> field detections in California	Adam Schneider	UW-LaCrosse
2022 Start	Developing Tomato Lines Resistant to Branched Broomrape, a Critical California Pest	Neelima Sinha	UC Davis
2022 Start	Inducible Suberin for Tomato Drought Tolerance (root architecture)	Siobhan Brady	UC Davis
2023 New	Detection of Broomrape Infestations with Remote Sensing *	Alireza Poureza	UC Davis
2023 New	Screening of a VOC Sensor to Identify Broomrape Infestations *	Cristina Davis	UC Davis





Be aware of this:



Don't do this:



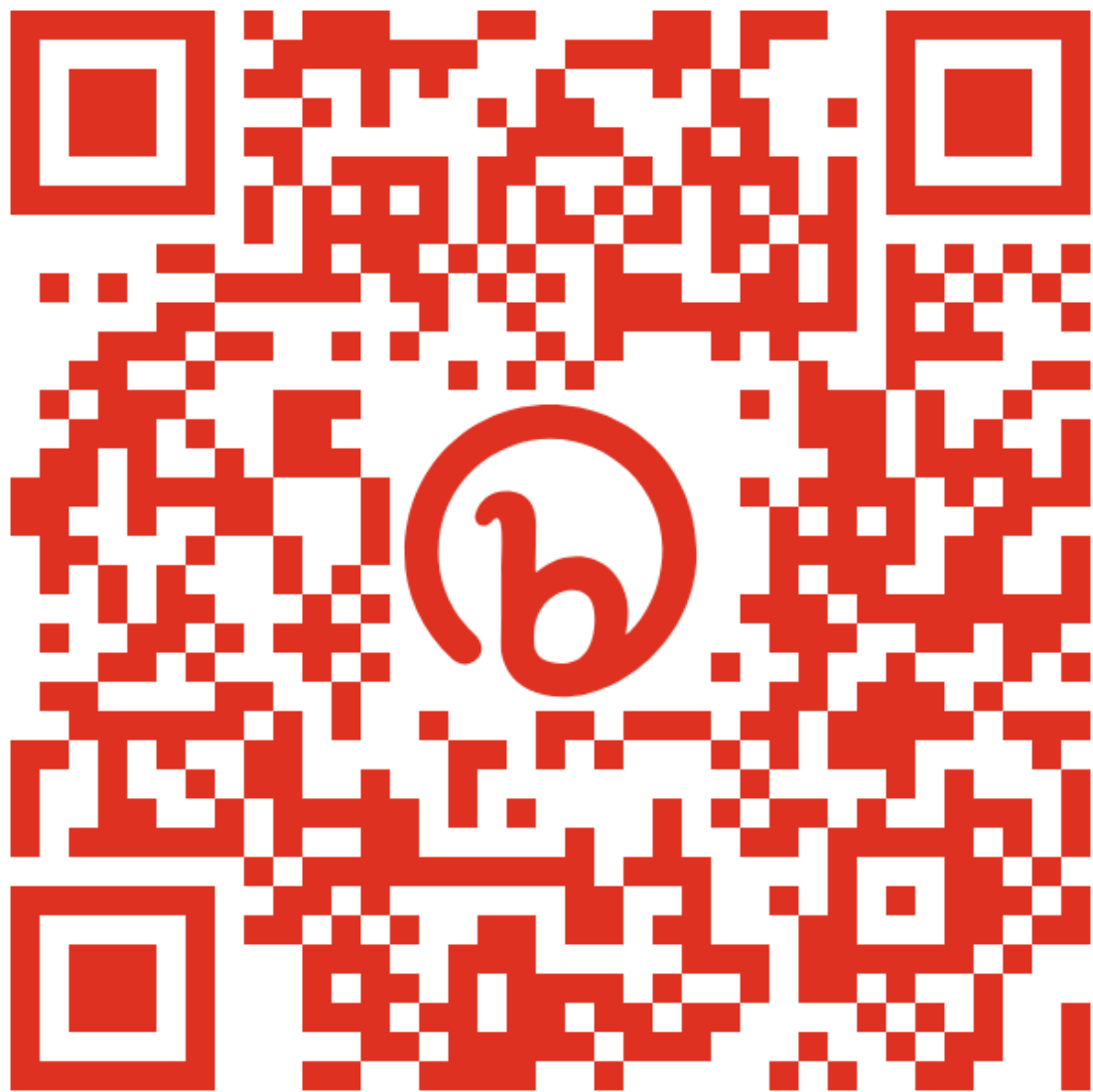
Think about it like this:



- Be Aware,
- Work with Growers or grower representatives to limit spread,
- Clean equipment (in known, suspected, or adjacent areas),
- Support voluntary and long-term mechanisms for funding Industry response,
- Work with growers in signing up fields for research efforts,

Slide Credit: Brad Hanson





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