

Salt and water stress effects on charcoal rot development in summer strawberry

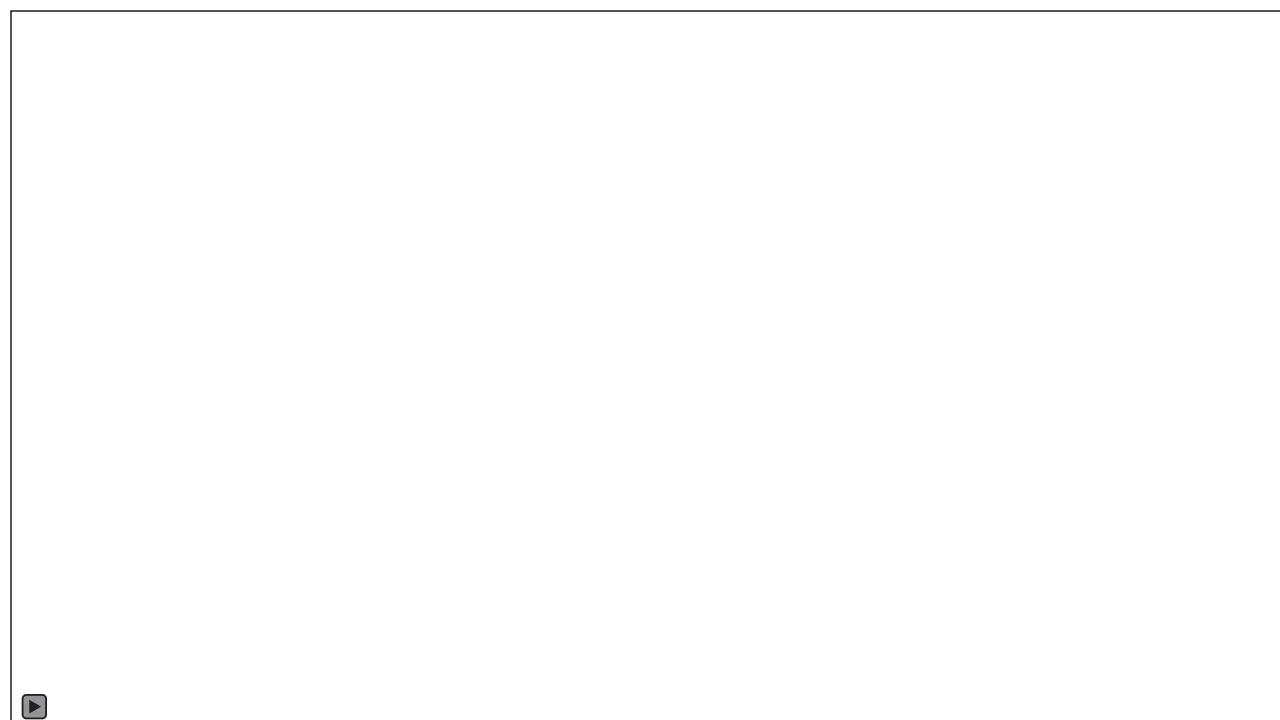
Oleg Daugovish, Andre Biscaro, Maripaula Valdez-Berriz, Abigail Brondos (UC-ANR) and Peter Henry (Driscoll's);

SCRI grant funding

At Camarillo, CA summer planting

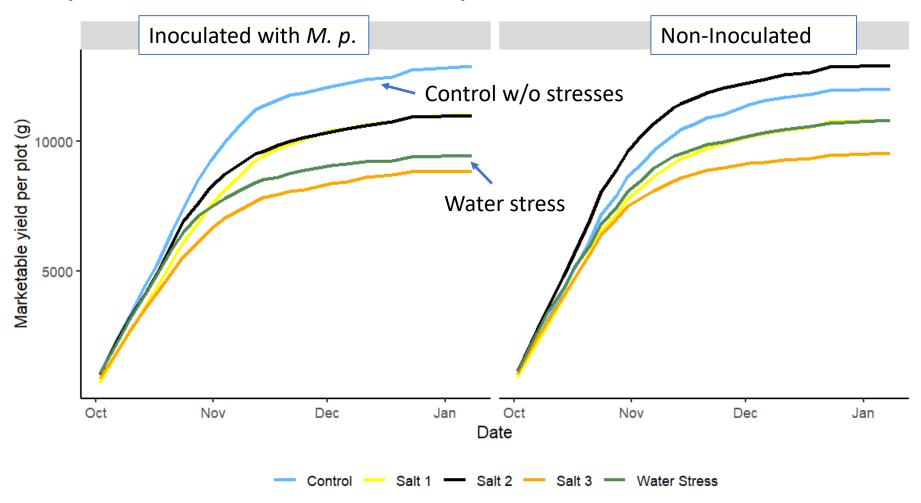
- Portola or Eclipse
- With or w/o *M.phaseolina* inoculum in planting holes
- 5 factors:
- -3 salt combinations via drip irrigation,
- reduced irrigation and
- grower standard irrigation (monitored by sensors and soil sampling)

50 g of infested sand placed at ~10 inches depth in the planting holes, delivered via plastic funnel

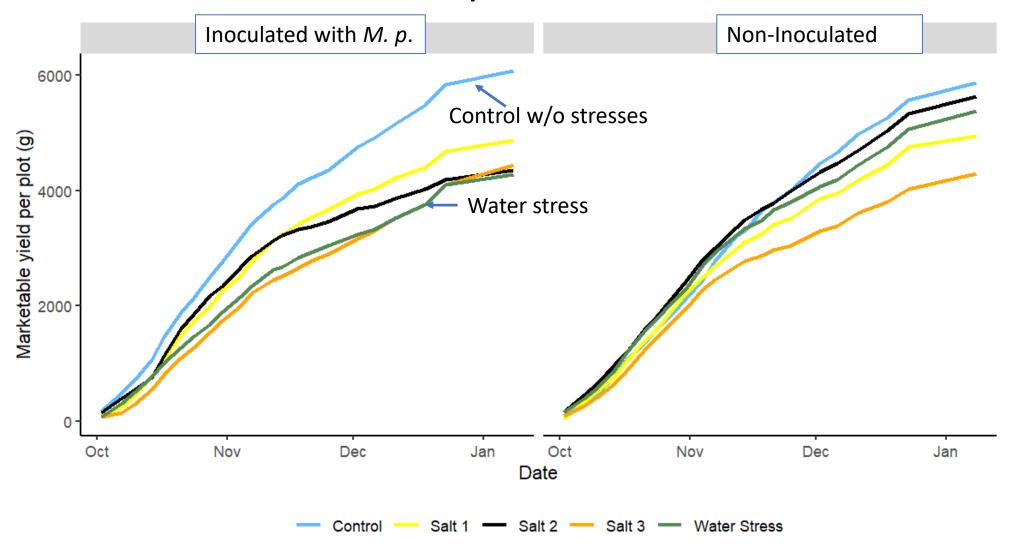


			Moisture
	ECw (dS/m)	Cl (meq/l)	threshold (cb)
Control	1.3	1.6	10
Water stress	1.3	1.6	60/30
Salt 1	1.8	6.8	10
Salt 2	2.4	13.2	10
Salt 3	3.1	4.8	10

Eclipse: marketable yield



Portola: marketable yield



30 Sept.

Eclipse w/o M.p



Eclipse with M.p. inoculum



30 Sept.

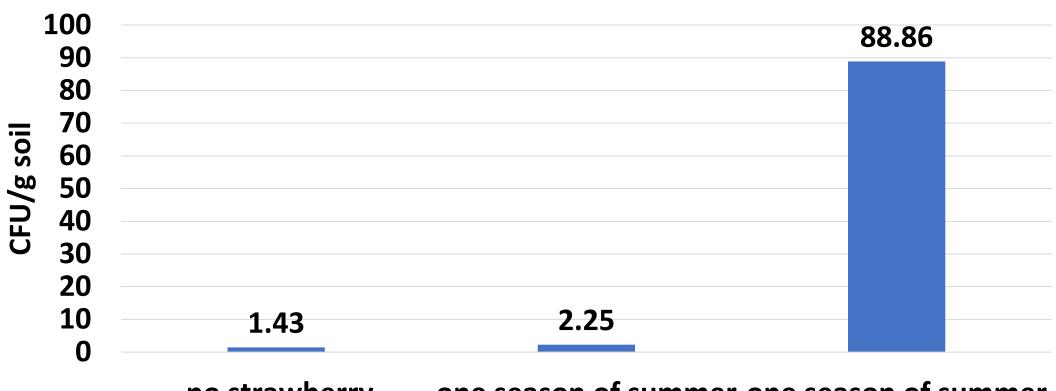
Portola w/o M.p. inoculum

Portola with M.p. inoculum





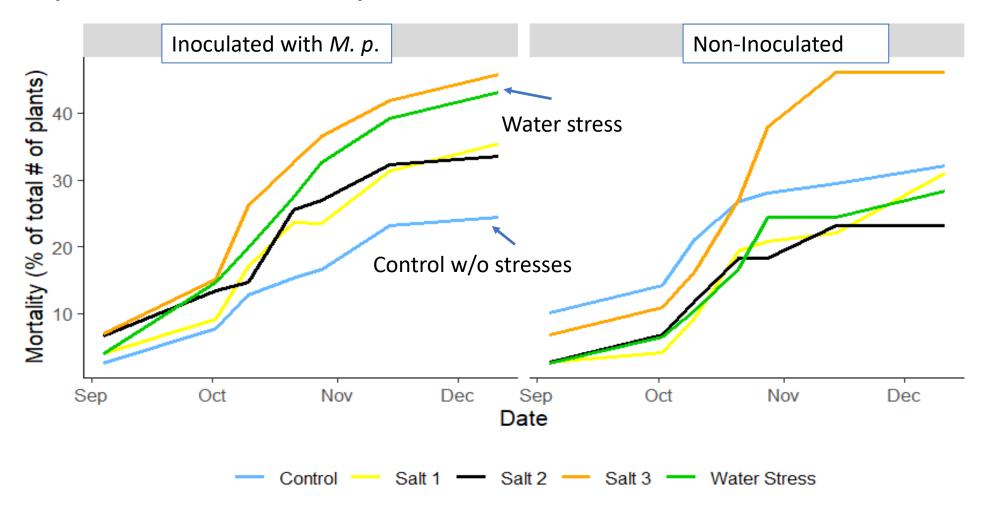
M.phaseolina in soil 2 years after 350 lb/A Pic flat



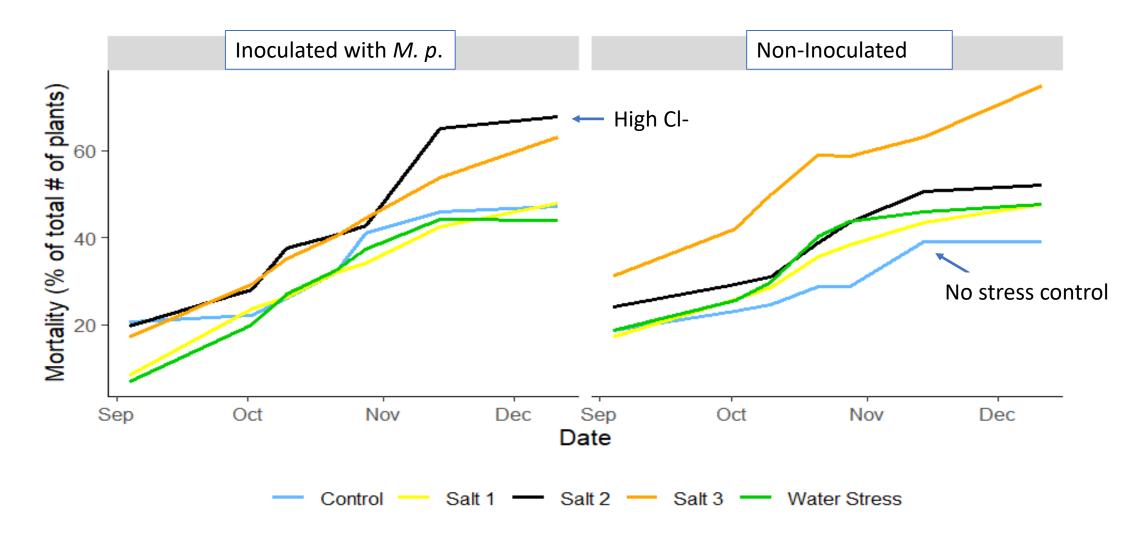
no strawberry

one season of summer one season of summer strawberry strawberry with M. p. inoculum

Eclipse: mortality



Portola: mortality





2025-26 trial:

- Applying salt treatments earlier (pre-plant)
- First die-back on Sept 3