

# Drip application of CrabLife™ Powder on strawberry

**Location:** UF/IFAS Gulf Coast Research and Education Center in Balm, FL

**Trial period:** Oct 8, 2018 – Mar 14, 2019

**Investigator:** Dr. Shinsuke Agehara

Gulf Coast Research & Education Center

Strawberry field trial



# Monthly Yield

Treatment	Marketable yield (t/ha)					
	Nov	Dec	Jan	Feb	Mar	Total
Untreated	0.38	0.78	1.25	10.03 B	7.84 b	20.29 B
Crab Life at 40 lb/acre	0.56	0.87	1.03	11.66 A	9.17 ab	23.30 A
Crab Life at 80 lb/acre	0.49	0.83	1.13	11.05 AB	9.92 a	23.43 A
Untreated vs. treatments (% changes)	29-48%↑	6-11%↑	9-18%↓	10-16%↑	17-27%↑	15-16%↑
	Pooled data					
All Crab Powder treatments	0.52	0.85	1.08	11.36	23.36	23.36
Treatment effects (AVOVA)	0.5295	0.8641	0.7608	0.1257	<b>0.0450</b>	<b>0.0857</b>
Untreated vs. all Crab Life treatments	0.3120	0.6399	0.5286	<b>0.0633</b>	<b>0.0209</b>	<b>0.0330</b>

LSD test at  $P < 0.05$  (lowercase letters) and  $P < 0.10$  (uppercase letters).

\*1Contrast analysis was performed to test the pooled data.

# Summary

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- CrabLife treatments maintained healthy canopy growth and increased canopy area by up to 13% compared to the untreated control during the late growing season (123-151 DAT).
- CrabLife treatments increased Nov yield by 29% to 48%, but these increases were not statistically significant.
- CrabLife treatments significantly increased Feb and Mar yields by 10-16% and 17-27%, respectively, compared to the untreated control.
- CrabLife treatments significantly increased total marketable yield by 15-16% compared to the untreated control.
- Yield increases by CrabLife treatments were due to increased fruit set (11-21%↑).
- CrabLife treatment at 40 lb/acre increased the proportion of small fruit yield but decreased the proportion of disease fruit compared to the untreated control. The proportion of marketable fruit was unaffected by CrabLife treatments.
- Fruit Brix was unaffected by CrabLife treatments.