Evaluating Anemone and Ranunculus Production Strategies in Utah

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Introduction

This study aims to optimize harvest timing and yield of *Anemone coronaria* and *Ranunculus asiaticus* cut flowers in Utah.

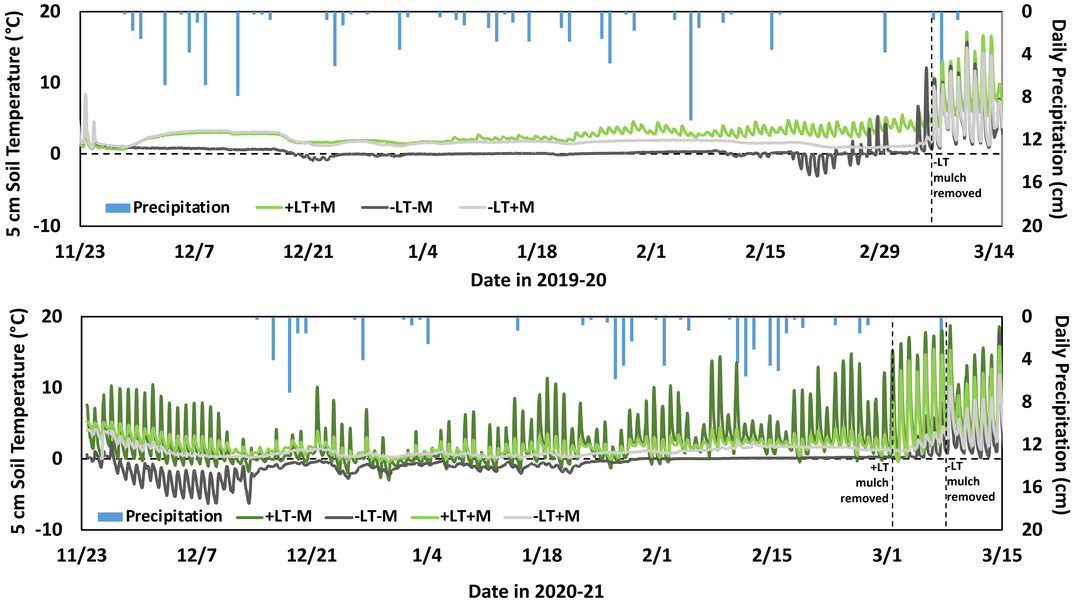
Methods

Location & Dates: North Logan, UT (41.77°N, -111.81°W), 1405 m. 2019-22.

- High tunnel (HT) and field (F)
- Planting Date (Nov-April)
- Low tunnel (LT) and mulch (M) combinations
- Cultivar: Ranunculus ‘LaBelle’ & ‘Amandine’; Anemone ‘Galilee’ & ‘Carmel’

Results

In 2020, ranunculus yield ranged from 61-149 and 33-151 marketable stems·m^{-2} (HT and F, respectively) across cultivars. Peak HT harvest (T50) was advanced by 26.5 days on average with Nov. planting compared to spring plantings. Winter protection improved ‘LaBelle’ yield by 61 marketable stems·m^{-2} for the F Nov planting.



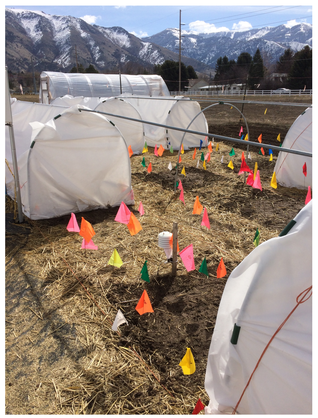
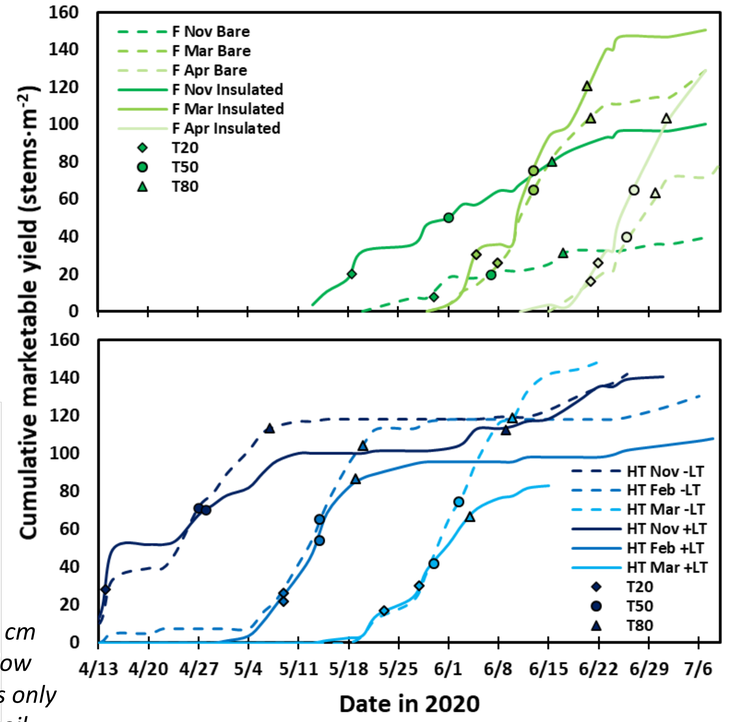


Fig. 1 (above). *Soil temperatures at a 5 cm depth and precipitation in F plots with low tunnels and mulch (+LT+M), low tunnels only (+LT-M), mulch only (-LT+M), and bare soil (-LT-M) from Nov. – Mar. in 2019-20 and 2020-21.*

Fig. 2 (left). *F plots (left) and HT plots (right).*

Fig. 3 (right). *Cumulative marketable yield of ranunculus ‘LaBelle’ in F and HT with (+LT) and without (-LT) low tunnels during the 2019-20 field season.*



Conclusions

Planting ranunculus and anemone in the fall with winter protection in Northern Utah presents a promising opportunity, potentially allowing growers to advance their season and stagger peak harvest periods.

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