

# Efficiency of Polycarbonate and Glass House on Summer Sweet Pepper Production



Glass



Polycarbonate

## Background

Increasing greenhouse light intensity shall increase crop yield, so it is recommended to use greenhouse cover that have high light transmission properties such as glass. In Saudi Arabia, many greenhouse growers prefer to use polycarbonate cover due to its cost effective and low temperature effect under hot-dry conditions.

## Objectives

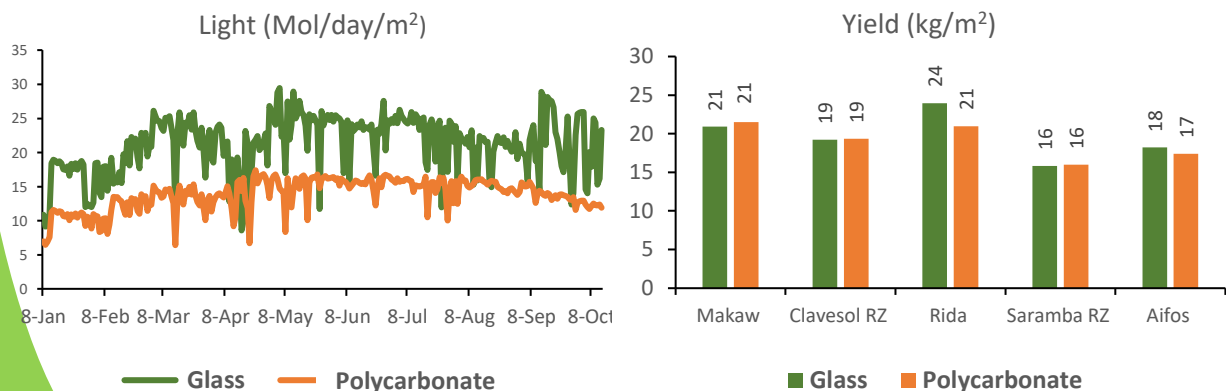
Testing the effect of two greenhouse roof covering materials (Glass and polycarbonate) on yield of five sweet pepper cultivars.

## Treatments

- Two Med-Tech greenhouses: Clear glass (4 mm) and Polycarbonate (16 mm).
- Five colored-sweet pepper cultivars.
- Harvesting: Mar-Nov -2020.

## Result

Although, light transition in glass cover was much greater than polycarbonate cover, the over all effect on summer sweet pepper yield was similar.



## Conclusion

The impact of extra light introduced by glass greenhouse cover, on summer sweet pepper production, was very small indicating that polycarbonate (cost effective than glass covering material) might be an alternative material for glass house for such crop cycle in KSA.