Objectives:

1. To evaluate the potential for using high/low tunnels and degradable plastics for crop production in Texas.

2. To evaluate degradable plastics and tunnels for efficacy and crop injury when managed under crop production in Texas.

Role of Russ Wallace to achieve objectives

1. Develop, design and coordinate weed management (herbicide, cultural, etc.) treatment lists for evaluation at selected locations with trials grown under tunnels and utilizing degradable mulches.

2. Develop, design and oversee production trials in Texas utilizing high/low tunnels and degradable plastics on selected vegetable crops.

3. Develop, design and oversee production trials to evaluate pest management (insects, diseases, nematodes, etc.) for vegetables grown under high/low tunnels and on degradable plastic mulches.

Weed Populations and Management:


Webster, T.M. 2005. Mulch type affects growth and tuber production in yellow nutsedge (Cyperus esculentus) and purple nutsedge (Cyperus rotundus). Weed Sci. 53:834-838.

Crop Production for Texas High Plains:


Shogren, R.L. 2000., Biodegradable mulches from renewable resources. J. Sustainable Agric. 16:33-47.
