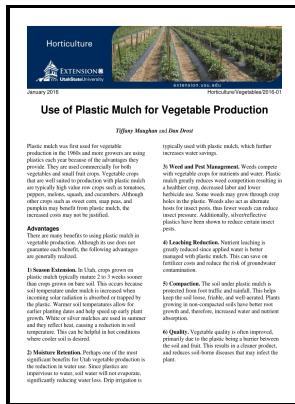


Plastic mulches for horticultural crops

Agricultural Experiment Station, Oregon State College - Plastic Mulches



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Special Projects

Purple nutsedge plants able to grow through the mulches were left unchecked until the end of the crop. Natural populations of purple nutsedge consisted of approximately 100 viable tubers per meter square.

Plastic Mulches in Crop Production Systems

The most common biobased feedstocks used to make biodegradable plastic mulches are starch, polylactic acid PLA, and polyhydroxyalkanoates PHA. F warmer than pepper plants not covered with tunnels.

Integrated Use of Bioactive, Green, and Plastic Mulches to Suppress Nutsedge in Horticultural Crops

These results indicate that some of the organic mulches may be valuable tools in reducing purple nutsedge populations in crops. By contrast, clear plastic mulch absorbs little solar radiation but transmits 85–95%, with the relative transmission depending on the thickness and degree of opacity of the polyethylene. Raw plant material for cost-effective mass production of *Dactylaria higginsii*, a mycoherbicide for the control of purple and yellow nutsedges.

Integrated Use of Bioactive, Green, and Plastic Mulches to Suppress Nutsedge in Horticultural Crops

The methods and techniques we developing are unique and can be scaled up for industrial production, which is one of the objectives of this study. The use of plasticulture for the production of horticultural crops has increased crop yields and fruit quality as well as reduced pest problems by 25% and reduced the use of pesticides in plasticulture systems by 20% per year.

Related Books

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