

## WAGENINGENUR

# Looking for the best cutflowers for organic greenhouse culture

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#### Background

This project started in 2006 to find out wich species and varieties can be used for organic culture in the greenhouse. The species and varieties were selecteted together with breeders, advisers, propagators, researchers and traders. The selection was based on the expected possibilities for good production and sales perspectives in bouquets.

## Method

A protocol for growing each variety was made, based on the experience of growers and literature.

In 2006 and 2007, experiments were done with *Tagetes erecta, Calendula, Ornithogalum thyrsoides, Ammi visnaga, Helianthus, Astilbe* en *Alstroemeria.* All experiments were done at organic farms.

## Results

The conclusions are summerized in the table. Most of the tested varieties could be grown on organic farms, with good results. However, growing flowers outside their normal growing season, or with special methods (like short day treatment) on organic farms will lead to the same problems as on common farms. This was the case with *Calendula* and *Helianthus*.

As a result of this survey, several farm- and productspecific challenges can be named:

- The succes of certain varieties depends on the soil type.
- The need for pretratment to obtain a good vase life.
- Market potentials of small amounts of flowers.
- Pests, for wich there are no predators.
- A larger assortment can lead to higher costs per flower.
- Fertilization of crops with a long growing period.

Сгор	Year	Number of tested varieties	Result	Best varieties	Challenge
Calendula	2006	12	negative	Indian prince Kabloena Orange Ball's Supreme Orange porcupine	Vase life when harvest in warm period
Ornithogalum	2006	2	positive	No differences	Marketing the high production
Amni visnaga	2006	2	negative	No differences	Abnormal shoots Rotting of growing point
Tagetes erecta	2006 2007	10	positive	Nosento Limegreen	Leaf spots Pests
Astilbe	2007	7	positive	Washington Europa Diamant	Marketing Rhizoctonia Length of <i>A. japonica</i> High cost young plants
<i>Helianthus</i> SD plants	2007	2	partly positive	SD tested on Sunrich Orange	Leafs above flowers Marketing 'High Tech'
Alstroemeria	2007	7	positive	Depends on market	<i>Cicadidae</i> Fertilization

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