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Center for Smart Agriculture

Protected floriculture



Module 3: Production technologies followed for
Protected cultivation of different flowers
Session 23: Protected cultivation of gypsophila



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INTRODUCTION

Common name: Gypsophila

Scientific name: *Gypsophila spp.*

Family: Caryophyllaceae

Chromosome no: $2n=2X=34$

C.O : Eastern Europe





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Soil and Climate

The soil should be :

- well fertilized and mixed with organic matters
- well drained and medium to light textured
- pH : 5.5 to 6.5
- ❖ The seeds are generally sown during spring season.



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Bed preparation & spacing

Length: depending on the length of the poly house

Width: 1 meter

Height: 30cm

Gap between two beds: 50cm

Spacing: 50 cm X 30 cm





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Different species



Gypsophila paniculata



Gypsophila elegans



Gypsophila repens



Gypsophila muralis



Gypsophila oldhamiana



Gypsophila perfoliata



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Intercultural operation (pruning)

- Blooming of the flowers occur simultaneously with the crop growth, so pruning in between is necessary.
- The dead and diseased part of the plants should be pruned immediately when located, otherwise it will damage the whole plant.





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Nutrient management

Different types of organic manures like FYM, compost, oil cakes and different animal manures like bone meal, meat mean, horn meal, fish meal, blood meal etc are applied. Need based application of chemical fertilizers are done as fertigation.



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Water management

The crop can't tolerate any types of water stress, whether physical or physiological, means it is susceptible to drought and waterlogging both. Therefore, there must be limited and controlled watering as and when required along with proper drainage facility.



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Harvesting

- Crop is harvested by cutting from the stem, when 30-40% of the flowers are opened up.
- The flowered stem is harvested leaving one internode.
- The harvesting shouldn't be delayed, because there will be browning of flowers.



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Yield

- Yield of Gypsophila differs from variety to variety.
- Normal varieties : 8-10 stems /plant /flush
- Improved varieties :10-12 stems /plant /flush



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Thank you