



Ageratum houstonianum

**„Annuals from A till Z”
From Ageratum to Zinnia...**



Ageratum houstonianum



Native to Mexico, Peru, semishrub (Ch). F1-hybrids, Hungarian cl one varieties('Tihany', 'Balaton', 'Velece')

sowing: Feb., planting: May 15×15 cm (even varieties for cutflower)

White, pink varieties – sensitive to rain!

Alcea rosea - mallow

Origin: Europe, Asia, originally biennial (TH).
Hungarian varieties are popular abroad as well!
sowing: March, or sowing to the final place, outdoor
(April)

Strong main root! Needs deep pot for growing
planting: end of April - May 30×30-40 cm

Variety groups:

Hungaria (100-150 cm)

Balaton (60-80 cm)

Pannonia (40 cm)

Pigmental mallows (150-200 cm)

Háros (150-200 cm): intergeneric hybrid of Alcea
and Althea – no fertile seed, propagation by
cutting



Alcea rosea Balaton variety group



Balaton (abroad: Majorette)

- 60-80 cm
- Bushy determinated growth
- Colors from white to burgundy
- Laciniata flower type



Alcea rosea pigmental mallow group



Eg. 'Holló'

- 150-200 cm

- Non branching growth

- Dark burgundy colour

- Anemone flower type

Alternanthera ficoidea var. *amoena* - parrot flower



Origin: Brazil

semichrub (Ch)

planting: 10-15 cm × 15-15 cm

Short internodes, small colorful leaves –
suitable for carpet flower bed
decoration

Alternanthera ramosissima (syn. A. dentata)



Origin: Brasil

Quick, strong growth, creeping stem, excellent heat and sun-tolerance

Propagation: vegetative

Amaranthus tricolor



sowing: March-April
Big plant size, some varieties
are heterogenous
Into sunny fl. beds
It falls off easily



Antirrhinum majus - Snapdragon

Origin: Mediterranean coast, it can overwinter

sowing: February

Planting: April-May, 15×15 or 20 x 20 cm

High varieties are cultivated as cut flower

Variety groups:

- pumilum 20-30 cm
- nanum 30-40 cm
- maximum 60-80 cm

Hungarian varieties:

‘Tűzgömb’, ‘Aranygömb’, ‘Hópehely’ (Fireball, Goldball, Snowflake)

White mildew, rot, Aphids, mites

Cleaning!!! Otherwise flowering break in July



Begonia cucullata (syn. B. semperflorens) – ever flowering begonia



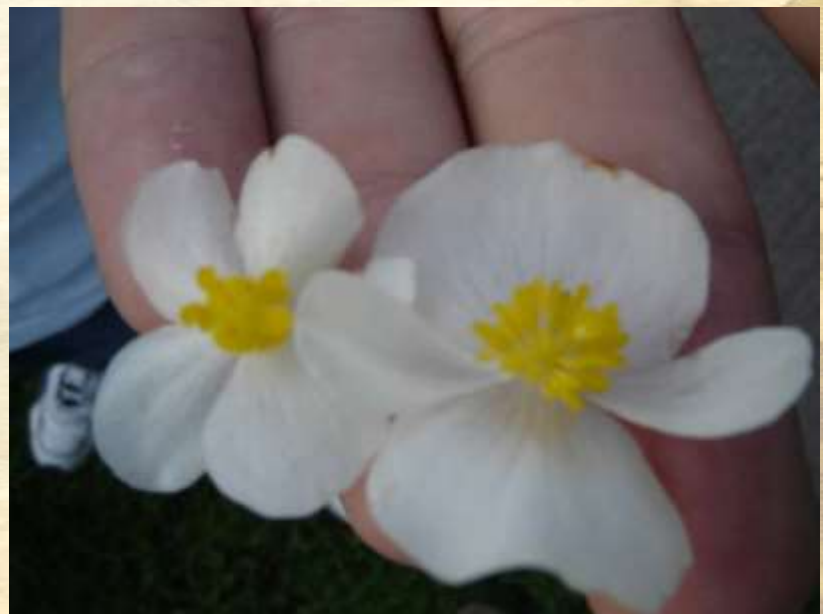
Origin: Brazil Variety groups:
Semperflorens, Gracilis.
Heterosis varieties!

sawing: XII.-I., planting: V. 15×15
v. 20 x 20 cm

To sunny and semi-shade
conditions

Self-cleaning







Begonia × tuberhybrida – Tuberous begonia



Hybrid of several South-
American species

- sowing: Nov. to Dec.
sensitive!
- Overwintering of tubers
- planting: May, 25×25 cm

Variety groups:

Grandiflora 8-12 cm

Floribunda 6-8 cm

Multiflora 4-6 cm

Compacta/Pendula

Flower types:

rose- camelia-, carnation-,
fringed flowers



Canna hybrids



Origin: S-America

Vírus!!!

Rizome overwintering, forcing in
Feb.-March



Catharanthus roseus



Origin: Madagascar

- sowing: February - March

- planting: May, 15-20×15-20 cm

Light

Over-irrigation

Sensitive to lime in the soil



Celosia argentea var. plumosa – Feather celosia



Origin: tropical zone of Africa, America

- sowing: end of February

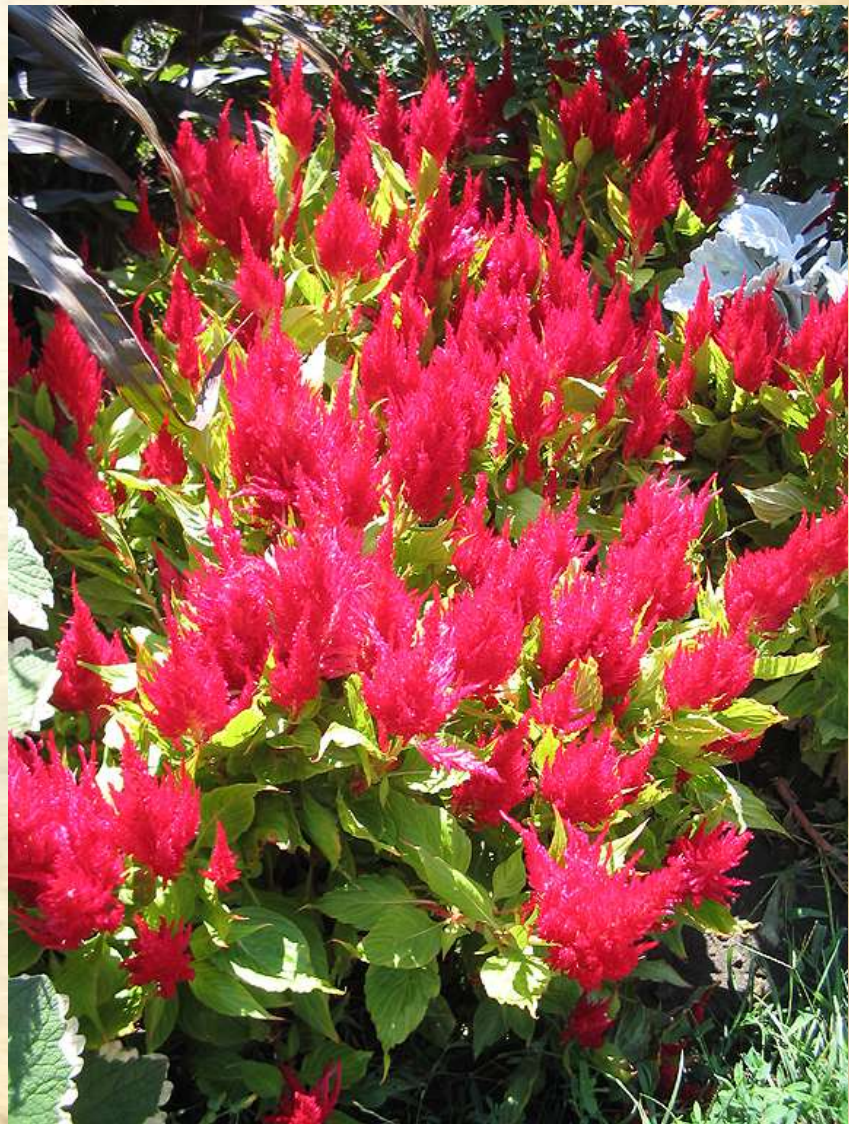
 - seedlings are sensitive to fungi

 - slow growth in the beginning

- planting: May, 20×20 cm



'Aranybika'
(Golden Bull)



'Savaria'



'Bikavér' (Bull Blood)



'Tokaj'



‘Rizling’



‘Rózsalovag’ (Rose Knight)



‘Arrabona’



‘Fónix’ (Phoenix)

Cleome spinosa / C. hassleriana – Spider flower



Origin: tropical zones of America
vetés: II.

sawing: May 30×30, 40×40 cm

Planting distance!!!

Helen, Queen variety group –
compact shape

Sparkler – F1



Cosmos bipinnatus



Origin: tropical regions of America

Mainly for home gardens sown directly in the soil (April)

Sonata group – compact, in public gardens too (50 cm)

(*C. sulphureus*: dwarf varieties in flower beds of public gardens)



Origin: Mexico

Prop. with sawing (eg. Mignon) or
cutting (clone varieties)

Planting distance: 20x20 cm

Height: 25-50 cm

In flower bed: dwarf varieties
cultivated as cut flower as well

Virus!!!, Botrytis, snake

High water demand

High light demand

Dahlia pinnata (syn. D. × hortensis)



Fresco group

Dianthus chinensis

Origin: China (Th, TH).

Variety groups:

- var. *imperialis* (20 cm), simple
- var. *heddewigii* (30 cm), double

Heterosis varieties

sowing: end of March

planting: April, 15×15 cm

Cleaning

Mite, Cotton owl moth



Gaillardia pulchella

Origin: Mexico and surrounding

sowing: March (or end of April into the final place)

Planting: May, 15×15, 20x20 cm

Drought tolerant, suitable for cut flower.



← 'Tűzgömb' [Fire Globe]

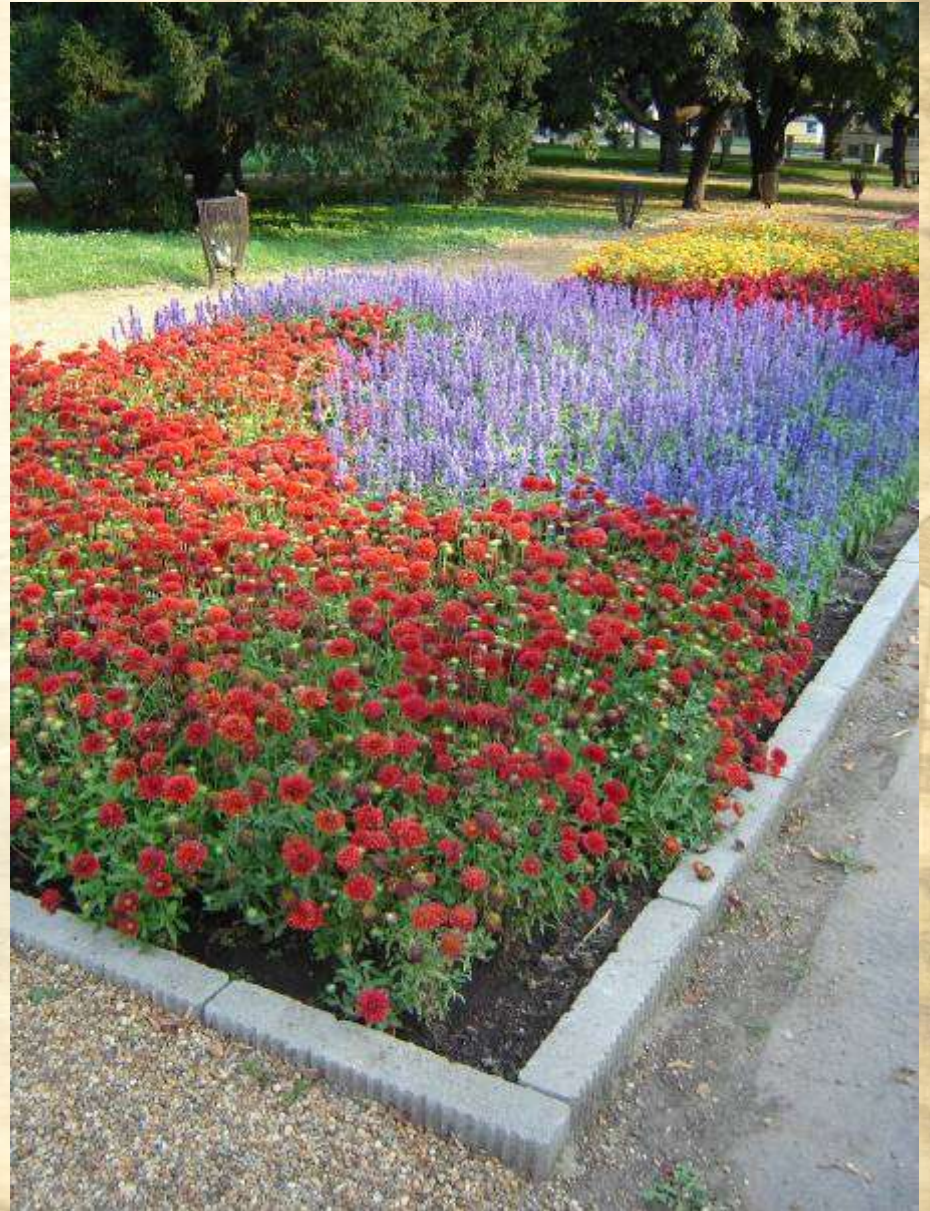
← 'Perzsaszőnyeg' [Persian Carpet]

← 'Aranygömb' [Golden Globe]

Gaillardia pulchella 'Perzsaszőnyeg'



Gaillardia pulchella 'Tűzgömb'



Gaura lindheimeri

Origin: USA

Perennial, flowers in the first year

Highest is the species (white)

varieties are smaller

Drought tolerant

Sunlight demanding



'Freefolk Rosy'

Gazania rigens

Origin: hybrid origin species crossed by the South-African species

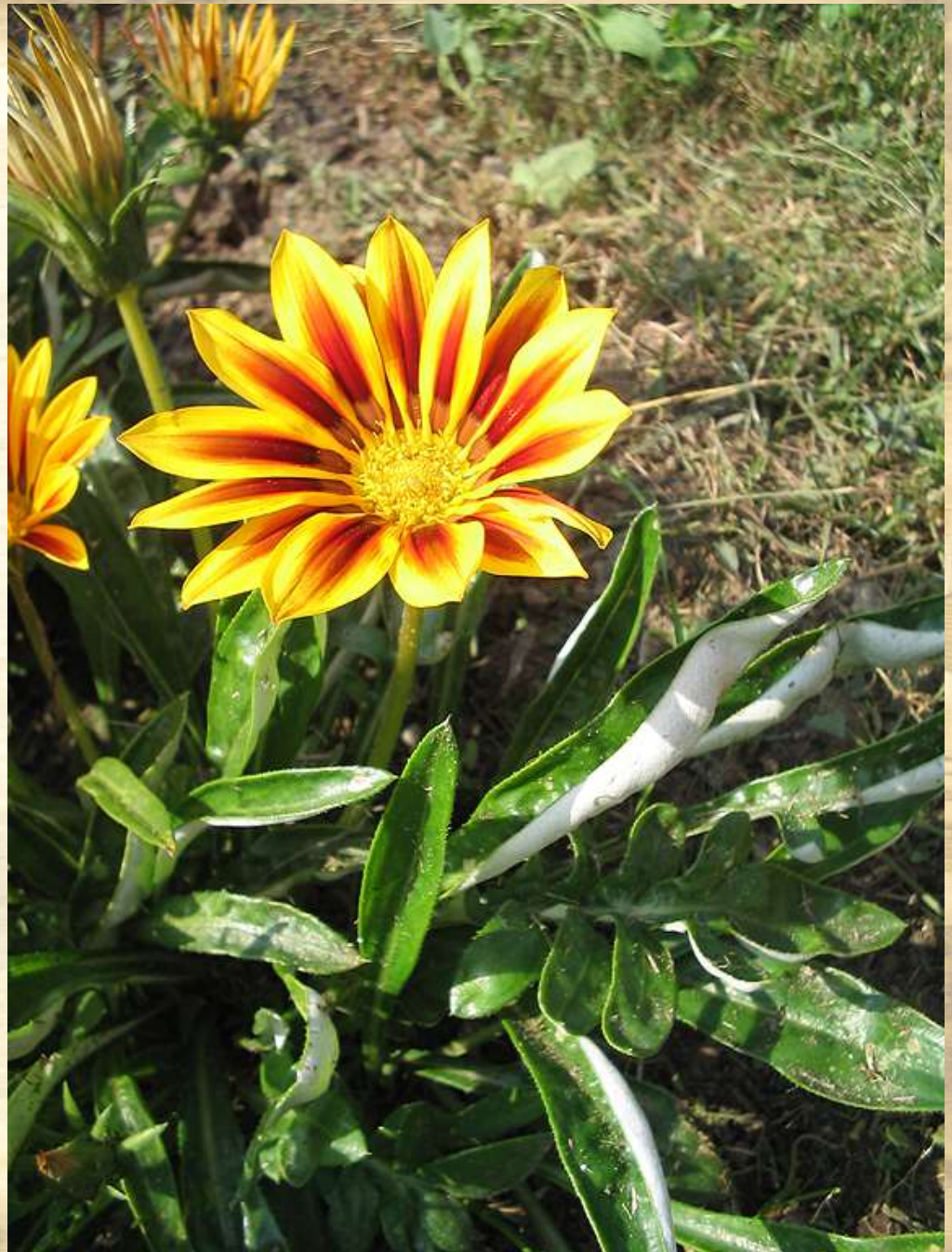
sowing: February

Planting: May, 15x15 cm

Drought tolerant

Flowers only in full sun

Gazoo group – a bit better tolerance of cloudy weather



Helichrysum italicum

Origin: Mediterranean region

Propagation: cutting

Height: 20-60 cm

Decorates with its foliage

Dense branch system – tolerates cut

For border as well

Drought tolerant

Survives the frost

From the second year it flowers:
ugly, needs cut back!



Heliotropium arborescens – Kerti vaníliavirág

Boraginaceae

Származás: Peru, hazájában évelő, cserje.

- gyéren elágazó, fásodó szárú
- ovális, molyhoszöld levelek
- apró liláskék virágok nagy kunkorvirágzatban
- illatos virág (vanília?)
- 30-40 cm magas

Ültetés: 20×20 cm

Előnevelt cserepes palánta

Tápanyagigényes





Impatiens walleriana



Origin: tropical zones of East-Africa

sowing: February

Planting distance: 15x15 or 20x20 cm

Heterosis varieties, wide tolerance

Cajun, Impuls F1

Peronospora!!

- substituted by Catharanthus varieties
- substituted by Imp. New-Guinea hybrids
- new Peronospora-tolerant varieties



Iresine lindenii – Keskenylevelű (évelő) pelyvavirág

Amaranthaceae.

Származás: Ecuador.

- gazdagon elágazó
 - levéldísznövény
 - bőrnemű, borvörös, csúcsos levelek
- 20-40 cm magas**

Ültetés: 15×20 cm

Szőnyegággyban nyírható

Vízigényes.



Iresine herbstii – Egynyári pelyvavirág

Amaranthaceae.

Származás: Brazília.

- kicsípett levélcsúcs, rózsaszín erezet

40-60 cm magas

Ültetés: 20×20 cm

Szőnyegággyban nyírható

Vízigényes.



***Jacobaea maritima* (*Senetio cineraria*) – Silver Ragwort**

Origin: Mediterranean

Sowing: February – March

Planting: 20x25 cm

Drought tolerant

Sun demanding

Tolerates shady conditions

Frost tolerant till -12 to -15 °C

Flowers in the second year:
flowers have to be removed



Lantana camara



Origin: Brasil

Planting: 25×25 cm

Only veg. prop.

Woody stem – can be easily shaped (pruning)

drought tolerance

decorates in semi-shade cond.

Low heat demand



Lobelia erinus



Origin: Capeland. Main groups: Gracilis, cascadian
sowing: March, Planting: May 10×10, 15x15 cm
„half annual” – cleaning!
Semi-shade conditions in the continental areas



Lobularai maritima

Origin: hills of the mediterranean region

- Continuous flowering varieties
sawing: April (into pot), May (into final place)

Pl. distance: 15x15 cm

Drought tolerance

Good border plant

colours: withe, rose, lilac



Lobularia maritima for waste surfaces



Melampodium paludosum - Sárgafelhő



Asteraceae.

Származás: Dél-Amerika

- extrém viszonyokat jól tűri
- tömött bokrú, ovális levelű
- apró, sárga virágzatok
- 25-40 cm magas
- gyomosíthat
- 25x30 cm

**Diszkrét megjelenésű,
enyhítő hatású.**

Nicotiana alata



Origin: South-America

sowing: Feb. – March on the soil surface (germinates on light)

Light demand, drought tolerant

← 'Hólabda' [Snowball]: dwarf, globular shape (KZ)

Good climate tolerance

Heterosis varieties



Nicotiana sylvestris



Origin: South-America
Big size, drought tolerant
Big size: planting 40x40 cm



only in white colour

Ocimum basilicum - Basil



Origin: Asia

- species:

sowing into final place in the
end of April (20x20 or
25x25)

- varieties:

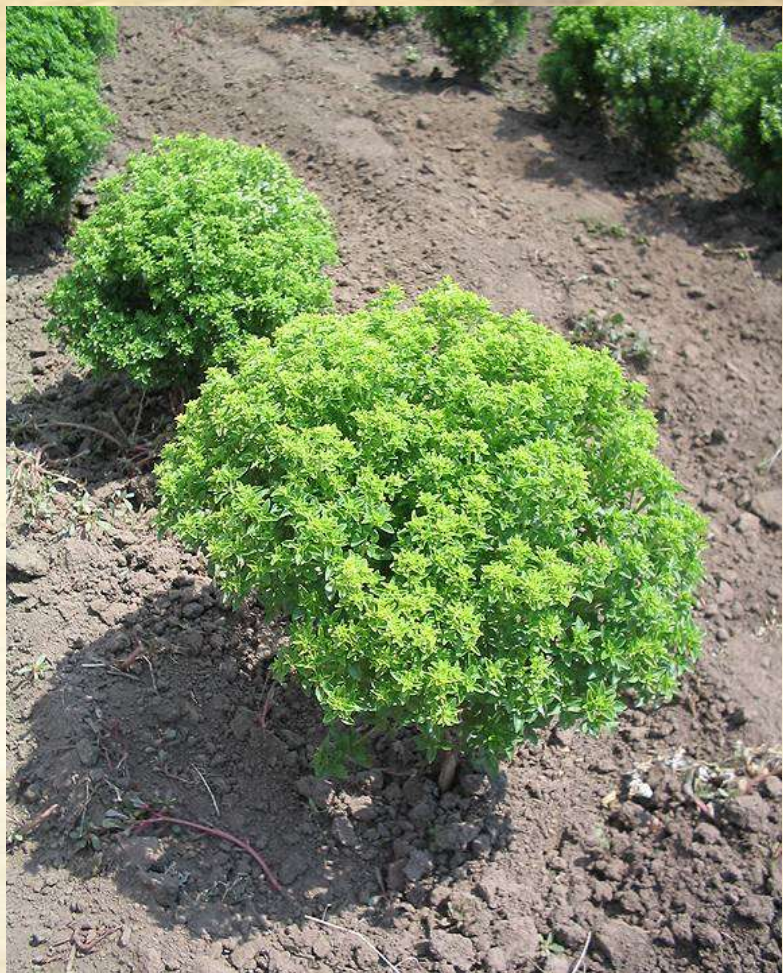
sowing in March

Planting from middle of May

height: 40 cm

Warm demanding! (freezes on
+1-1 °C)

'Bíborgömb' Purple Ball



'Zöldgömb'
Green Ball



'Bíborfelhő' Purple Cloud



'Rokokó'
Rococo

Pelargonium peltatum and P. zonale



Calliope –
interspecific hybrid

Pennisetum villosum – Feather Top



Origin: Ethiopia. sowing: January, planting: 40×40 cm. Height: 60-70 cm

Drought tolerant, cold tolerant, doesn't flowers when planting

Pennisetum setaceum - Rózsás tollborzfű

Origin: Middle-East

sowing: February

Planting distance:
30x30 cm

Height: 60-80 cm

the ear of corn will fall
apart

Drought tolerant



Pennisetum glaucum



Origin: Africa (India)

Drought and sun demanding

Sowing: February

planting distance: 35x35 cm

Petunia × hybrida - Petunia

Origin: hybrid varieties bred by crossing of American species
More hundreds of varieties are cultivated

Variety groups

1. According to growth

- Pendula (eg. Surfinia)
- Compacta Nana

2. According to flower size:

- Milliflora
- Multiflora
- Grandiflora
- Superbissima

Sowing: big flowered: February, small flowered: March
planting: 20×20-25 cm

Fragrant – butterfly gardens

Cutting: balcony petunias eg. Surfinia





Petunia Multiflora Hurrah group



Bravo F1 group





Phlox drummondii – Egynyári lángvirág

Polemoniaceae.

Származás: Amerika, Texas

- felálló szárú, ritka elágazódású
- kompakt, alacsony fajták
- lándzsás levelek
- hajtásvégi virágok
- piros, lila, rózsaszín, fehér

15-20 cm magas

Ültetés: 15×15 cm

Házikert

Feltűnő színfolt

Liszharmat



Pilea microphylla

Origin: Central and South-America

Vegetative propagation

To sunny and shady places

Even for pot decoration

Planting distance: 20x20-25 cm



Plectranthus argentatus 'Silver Shield'



**Plectranthus scutellarioides
(Coleus blumei) – Painted Nettle**

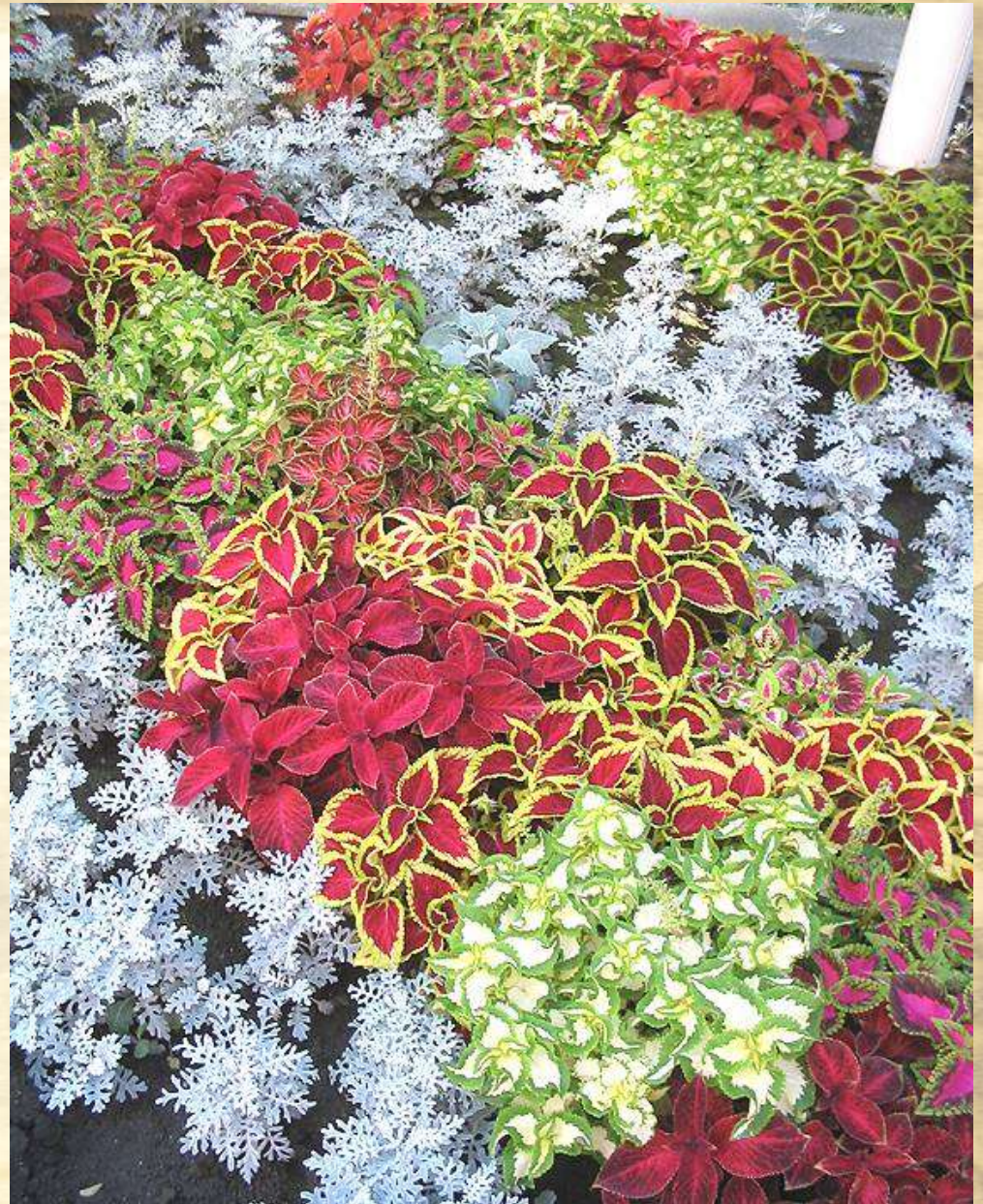
Origin: Java

Sowing: February

Planting: 25x25 cm

Height: 40-60 cm

To sunny and shady
conditions



Rudbeckia hirta -



‘Napfény’
Sunlight

Origin: North-America

Sowing: February, planting: 30×30 cm.

Toto: only for balcony boxes



'Napfény'
Sunlight



‘Gloria’



‘Mackó’ Teddybear

‘Őszifény’ Autumn Light





Salvia farinacea – Floury Sage

Origin: Texas, Mexico.

Sowing: March

Planting: 30×30 cm

Sun demanding, drought tolerant



Salvia interspecific hybrid



Salvia longispicata × Salvia farinacea

Salvia splendens – Scarlet sage

Origin: Brazil
(50-150 cm)

Sowing: February
Planting: 20×20-25 cm

Flamex 2000 variety
group





Salvia coccinea – Blood sage



Origin: SE-USA, Mexico, Caribbean Islands, Central_America

Sowing: March

Planting: 25x25 cm

Drought tolerant, sunlight demanding, even to extensive flower beds

Wild flower effect

Tagetes species - Marigold

Origin: Mexico

Species:

T. erecta

- carnation-type

- chrysanthemum-type

T. patula

T. tenuifolia

Sowing:

T. erecta: Feb.-March

T. patula: March

T. tenuifolia: March

Can be sown on the final place)







T. erecta 'Pollux'



T. erecta 'Holdfény' Moonlight



T. erecta 'Napfény' Sunlight



Tagetes erecta 'Vanilla'



Tagetes patula 'Orion'



Tagetes patula 'Vénusz'



***Tagetes patula* 'Csemő' and 'Orion'**



***Tagetes* 'Föhnix' Phoenix**



Tagetes tenuifolia

Tithonia rotundifolia -

Origin: Central-America (5 m).

Sowing: end of March – beginning
of April

Planting: 40×40-50 cm

‘Pásztortűz’ (Shepherd's fire) 80-
100 cm

‘Narancsszőnyeg’ (Orange carpet)
50-60 cm

White mildew!!



Tithonia rotundifolia



Verbena bonariensis - Purpletop vervain



Origin: Argentina, Brazil.

Sowing: January (!)

Planting: 50x50 cm

Height: 80-100 cm

Drought tolerant, sun demanding

Feeds bees, insects

Not flowering when planted!

Verbena rigida – Tuberous vervain



Origin: Argentina, Brazil

Sowing: January (!) – can be propagated by rhizomes

planting: 20×20-30 cm

height: 25-30(-40 cm)

Drought tolerant! Sun demanding

Verbena hybrida – Garden vervain



Origin: hybrid of American species

Sowing: March planting: 20-25×20-25 cm

White mildew! Mites!



Zinnia angustifolia – Narrowleaf zinnia



Origin: Mexico

Sowing: March (in the end of April in the final place)

Planting: 20x20 cm

Drought tolerant, demandless,
excellent in extensive flower beds

Zinnia elegans – Elegant zinnia

Origin: Mexico

Sowing: March (in the end of April in final place)

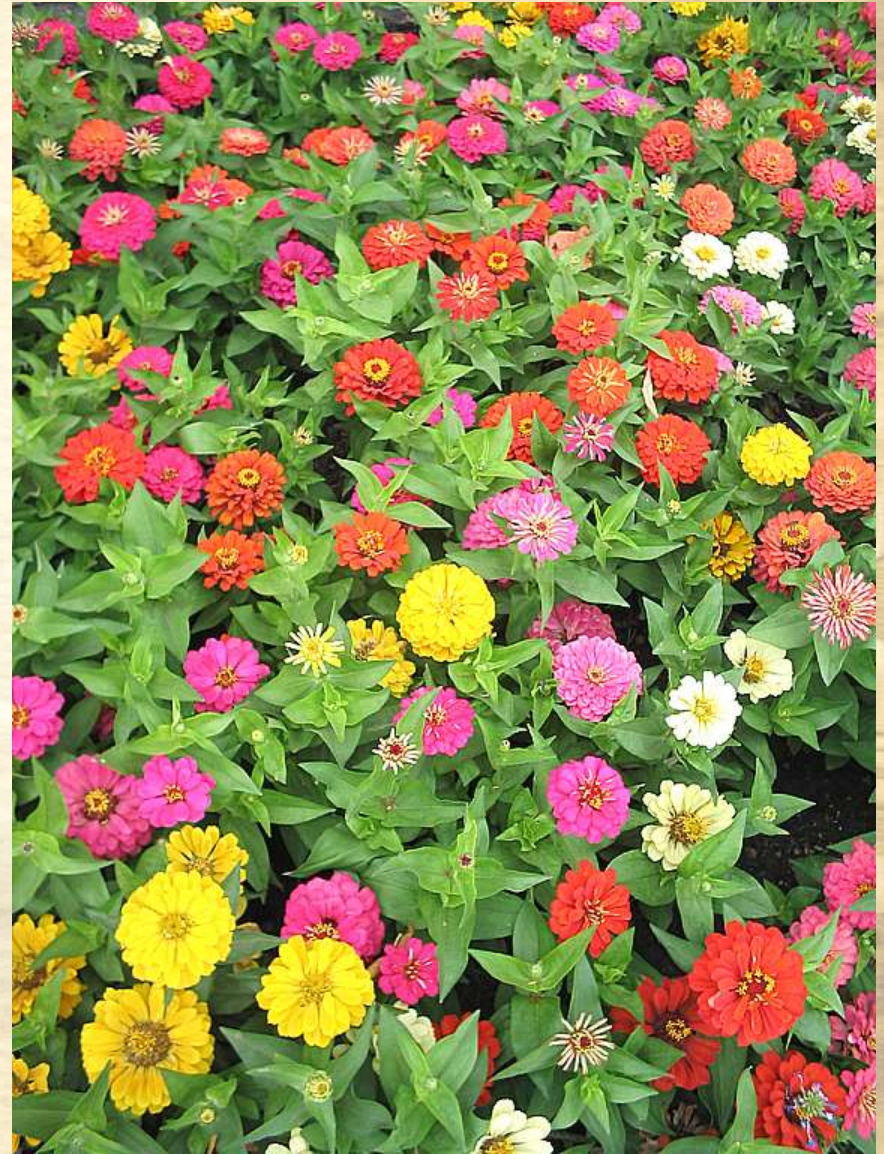
planting: 25-40 cm × 15-20 cm

Height: 40-60 cm

To sunny condition

In dry conditions white mildew

Many variety groups



Zinnia × marylandica - Hybrid zinnia

Origin: hybrid of *Z. elegans* and *Z. angustifolia*

Sowing: March (in the end of April to final place)

Planting: 25x25 cm

Drought tolerant



Thank you for your attention!

