

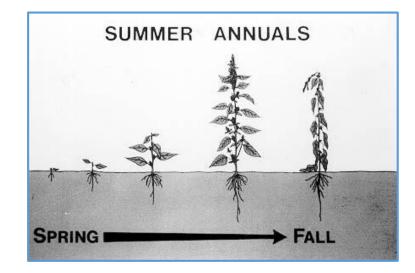
Plants 101

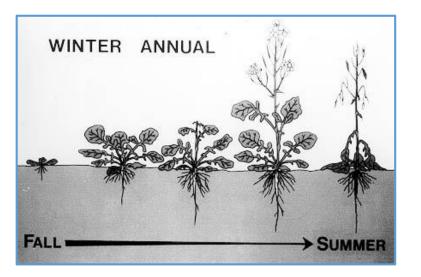


By Val Kehoe

Classifications

□ Annuals Hardy Half hardy Tender □ Biennials Perennials Woody Herbaceous







Annuals

- □ 1 yr life cycle
 - Germinate, grow, bloom, set seed Pollinated
- Bloom profusely
 - Invest all energy into blooms Continuous color
- Home owner favorite
- □ Inexpensive

Fast growing

Produce large amounts of seed

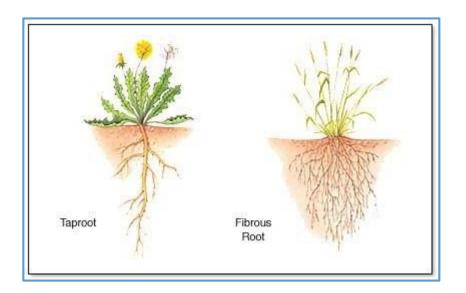






Annuals

- □ Fibrous root system
 - Generally no tap roots
- Some plants are treated as annuals
 - Tender perennials
 - Lantana, Geranium, Coleus
- □ Not cold hardy in our zone!
- Overwintering tiresome
 - Suitable space























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Conclusions

PROS

- □ Inexpensive
- □ Germinate readily
- □ Fast growth
- Continuous bloom
- Readily available

CONS

- □ Short-lived
- Annual planting
- Primarily non-native
- Maintenance (watering)
- Frost tender



BIENNIALS



- Completes life cycle in 2 years
- First year

Vegetative growth

Second year

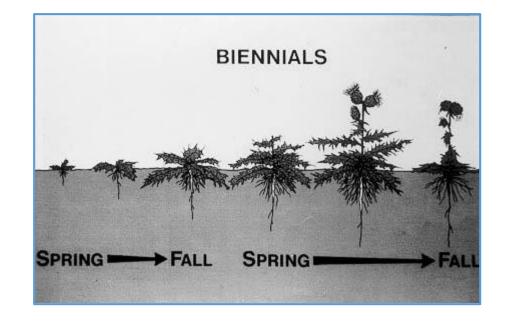
Flowers, fruits, seeds

- Plants look differ drastically in appearance
- Weeds
 - Control in first year

Do not allow to reseed

Ornamentals

Second year bloom, long wait Take into consideration for designs













Conclusions

- Long wait for blooms
- Must allow plants to seed
- Several generations on site Ensure annual blooms

Check seed packet





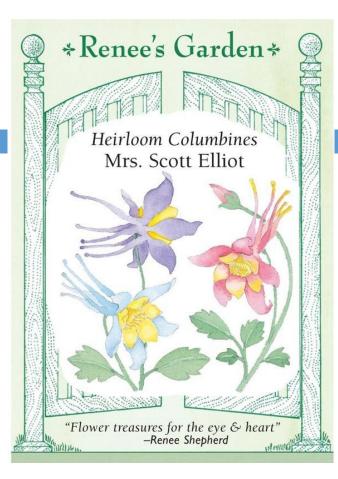
5174 Mrs. Scott Elliot Columbine

(Aquilegia caerulea)

until seedlings are ready to plant outdoors. Be patient; these small perennial seeds germinate slowly in 14 to 21 days. Once seedlings are large enough to handle, transplant 2 to 3 inches apart into a deeper container so root systems have room to develop. Feed every 2 weeks with halfstrength fertilizer. When plants are 2 to 3 inches tall, gradually acclimate to outdoor conditions and plant 12 to 18 inches apart in fertilie, well-drained

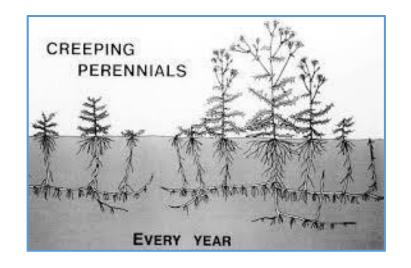
soil in sun or partial shade. To START OUTDOORS

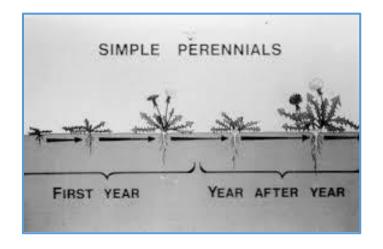
Sow seeds in fine textured, well-drained soil when danger of frost is past. Space seeds 2 to 3 inches apart, cover 1/4 inch deep and gently firm soil. Keep evenly moist. When seedlings are well-established, thin 12 to 18 inches apart.



PERENNIALS

- □ 3+ yrs
- In cold climates
 - Plant dies back over winter
- In warm climates
 - **Plant remains**
- Deep, vigorous root system
 - Often tap roots
 - Bulbs, corms, rhizomes, tubers
- Perennials do not have to be hardy!





















WOODY VS NON-WOODY

- Non-woody: herbaceous perennials
- Hardy or tender









Conclusions

PROS

- Longevity
- No annual planting
- Gradual spread
- Less maintenance (long term)
- More natives available

CONS

- □ More expensive to purchase
- □ Grow slower
- □ Longer wait for blooms
- No continuous bloom



Wildlife Friendly

- Nectar/pollen source
- Host plant
- Fruit/seeds
- Shelter/habitat
- Nesting material









Non-natives

- Alyssum
- Calendula
- Cleome
- Cranesbill
- Cuphea
- English Daisy
- Heather

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Forget-Me-Not



- Marigold
- Nasturtium
- Sage
- Sedum
- Snowdrop
- Sunflower
- Sweetpea
- White Clover
- Yellow Mustard
- 🗆 Zinnia



Herbs

□ Anise

🗆 Basil

- Borage
- Chamomile
- Cilantro
- Fennel

Lavender



□ Mint

- Marjoram
- Oregano
- Parsley
- Rosemary
- Sage
- □ Thyme







Native Plants



- Popularity rise
- Wildlife benefits

Insects

Pollinators

Animals

Ecological benefits

Water

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Fertilizer

P&D control

More widely available







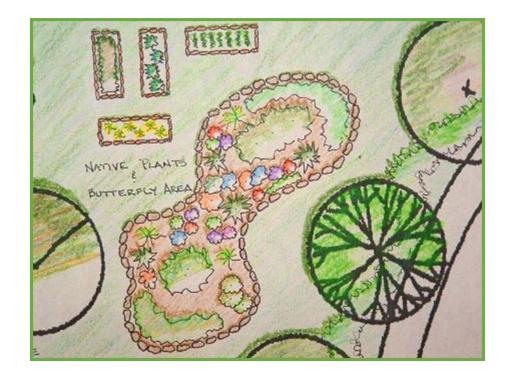
Where

- Predetermined
- □ Sun loving
- Frequently visited Visible
- Self-seeding
- Roads/Sidewalks

Salt use

Accessibility

- Wildlife aspect
 - Accessibility/Shelter/Proximity
- Future expansion





When

Spring

Watering needed over summer Allows plants to root

Autumn

Less availability of plants

Weed control

- Are plants being grown from seed or plugs?
- Seed requires cold treatment







Know Your Site



- Light
 Shade vs Sun
- Dampness

Wet vs Dry

- Soil texture
 Clay vs Loam
- Soil structure

Compact vs Loose

Soil fertility

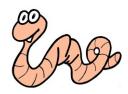
Poor vs Rich

- Soil pH
 - Acid vs Alkaline

UNIVERSITY OF ILLINOIS EXTENSION

Wind







Starting

- Seeds/Plugs/Pot plants
- Prep area
 - Kill grass
 - Kill weeds
- Weed seed bank
- Do not till the soil
 - Weed seeds
 - Competition





What

Familiarity

Aesthetics

Flowers Foliage Habit



- Wildlife value
 - Flowers/Seeds/Fruits
- Plant nature

Aggressive/Dominant Well-behaved

Maintenance requirements







