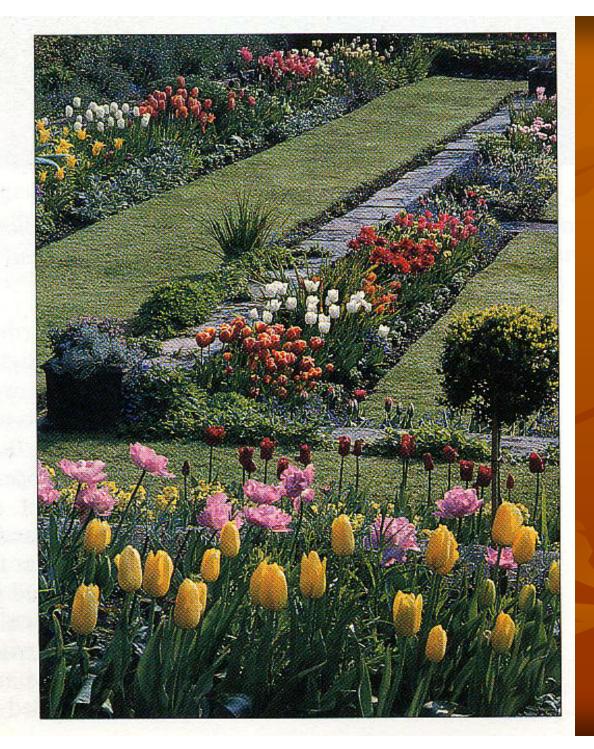
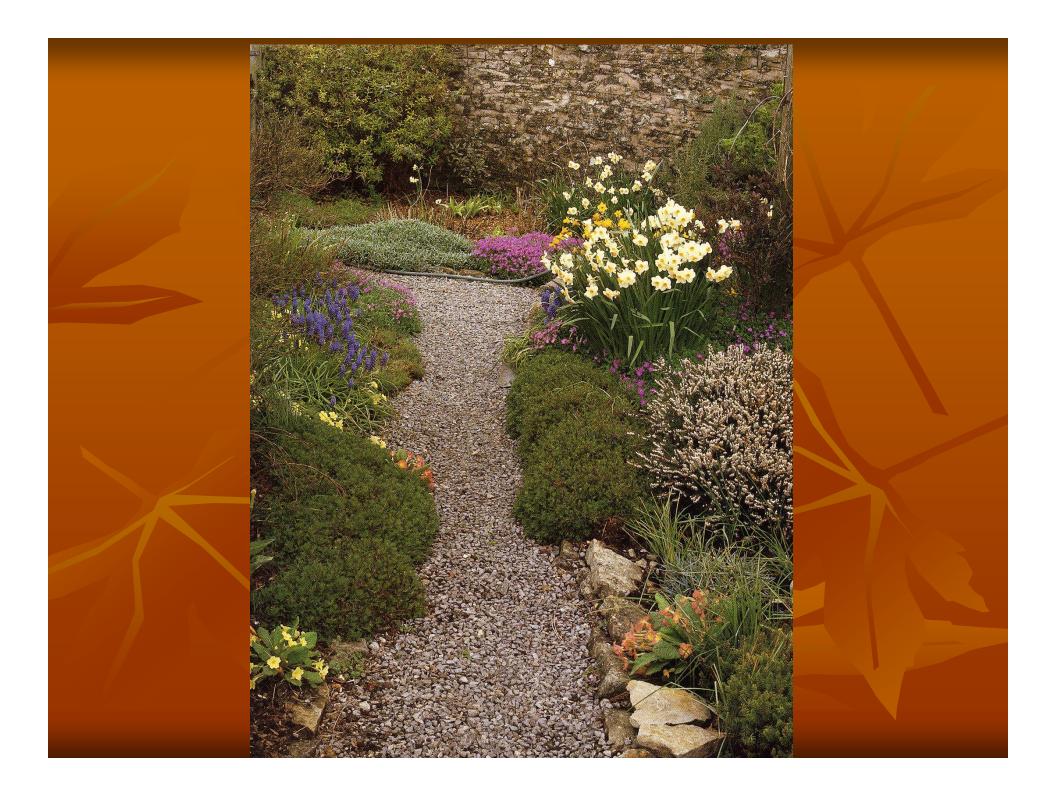




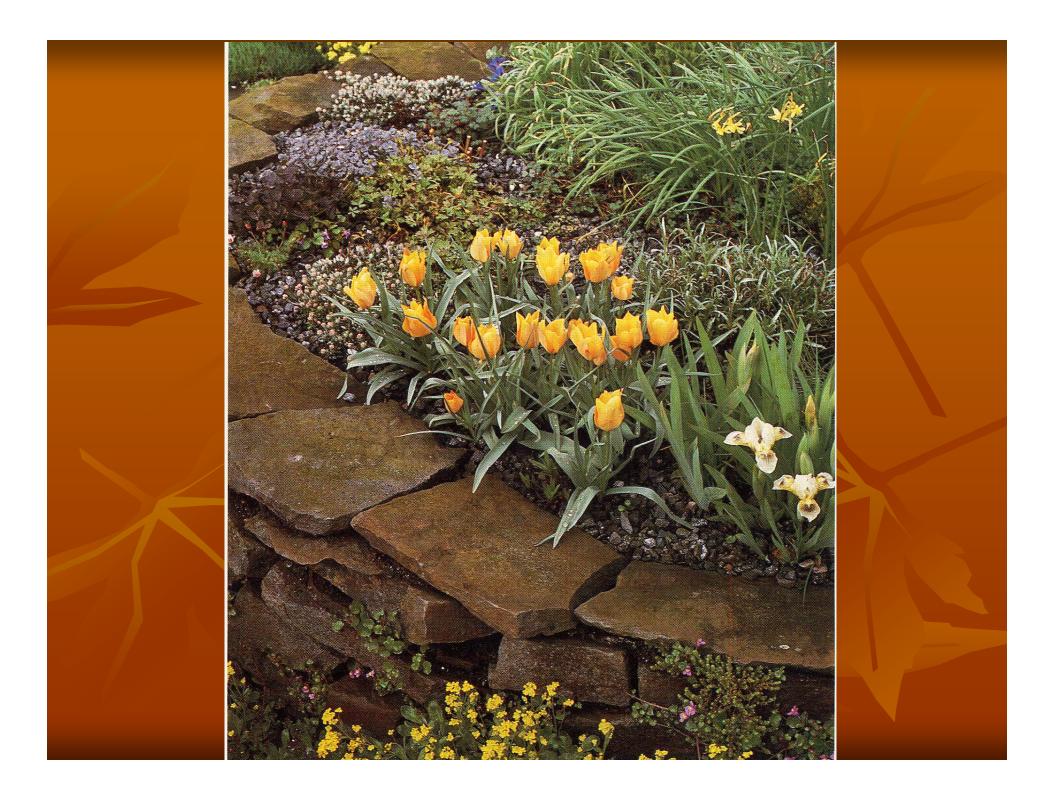
A PAGEANT OF COLOUR Serried ranks of tulips parade along these formal beds in bold, bright blocks of contrasting colour, creating an energetic counterpoint to the quiet orderliness of the formal garden. White tulips intersperse those of stronger hue to prevent the colour combinations from appearing too strident.







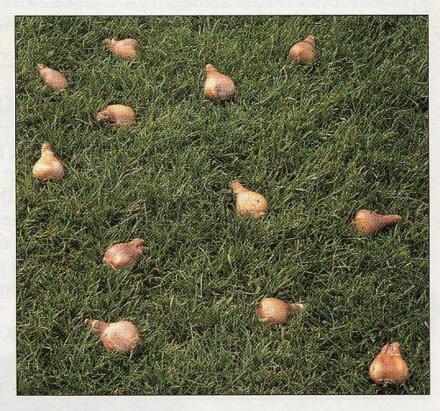






#### PLANTING LARGE BULBS IN GRASS

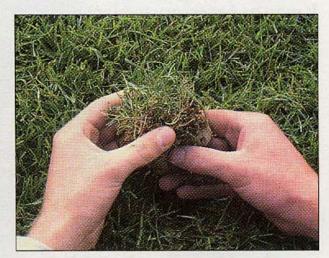
Clean the bulbs (here daffodils), removing any loose, outer coatings and old roots. Scatter the bulbs randomly over the planting area, then make sure that they are at least their own width apart.

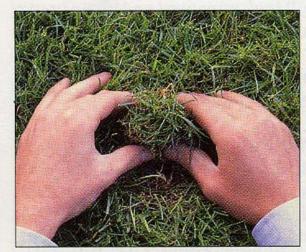




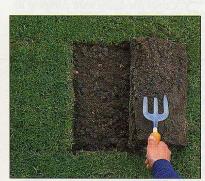
Make an individual hole for each bulb, using a bulb planter to remove a circle of turf and a core of soil to a depth of about 10–15cm (4–6in).

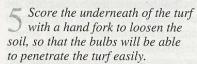










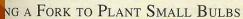




Using a hand fork, loosen the oil beneath to a depth of at least 7cm (3in), mixing in a little bone meal at a rate of about 15g/sq m (1/20z/sq yd).



Roll the turf flaps back into oposition, taking care not to dislodge the bulbs or to damage the turf. Firm down the turf, particularly along the joins.





ss the bulbs (here crocuses)

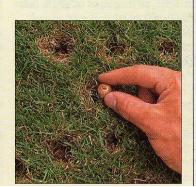
tly into the soil, taking care

amage the growing points.

he bulbs randomly but at

5cm (1in) apart.

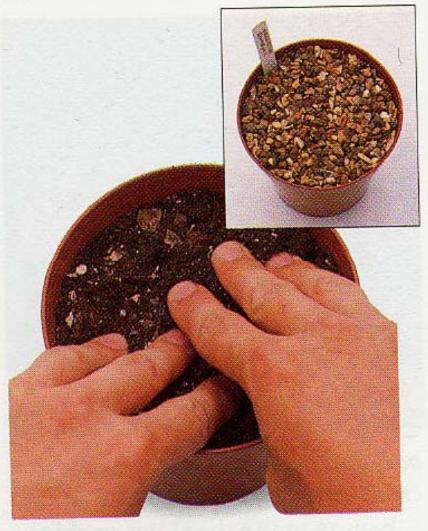




# HOW TO PLANT BULBS IN POTS



Plant the bulbs (here daffodils) at twice their own depth, and one bulb's width apart.



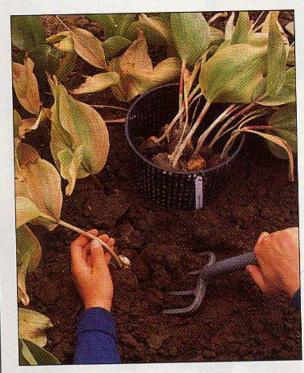
Cover the bulbs with compost to 1cm (1/2in) below the rim. Topdress with grit (see inset), and label.

# Bulbs for Successional Interest



To provide a display of flowers over a prolonged period, choose two or more types of bulb that come into flower at different times during the season, and plant them together in the same container. Position the early- and late-flowering bulbs in layers, each at approximately twice its own depth. Arrange the bulbs in a random pattern rather than in rows to achieve an informal effect.

# HOW TO LIFT, DRY, AND STORE BULBS



When the leaves are turning yellow, about a month after flowering, gently lift the bulbs (here tulips) with a fork. Put them in labelled containers to avoid confusing different plants.



Clean the soil off the bulbs and rub off any loose, flaking tunic tissue. Cut or carefully pull off the dying foliage. Discard any bulbs that show signs of damage or of disease.

Place the bulbs on a wire tray, spaced so that they do not touch, and leave them to dry overnight. Then dust them with fungicide and store them in clean, clearly labelled, paper bags.

#### REPOTTING OVERCROWDED BULBS



Remove some compost from the pot to inspect the bulbs (here daffodils). If they have become overcrowded in the pot, they should be repotted.



Separate any pairs or clumps of bulbs with large offsets into individual bulbs by gently pulling them apart.

Carefully tip out the contents of the pot, and remove the bulbs from the compost.

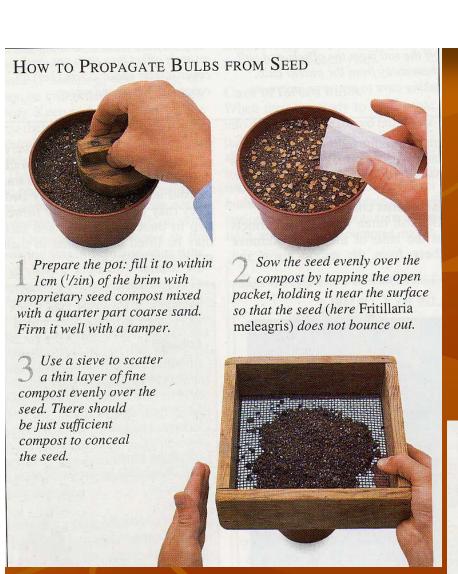
Discard any dead material or any bulbs that show signs of pests or diseases.



Select only healthy bulbs and clean them, rubbing with finger and thumb to remove any loose, outer tunics. Dust the bulbs with fungicidal powder.

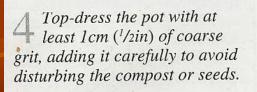


Seplant the bulbs in a pot of fresh, moist, bulb compost. Insert them at twice their own depth, and space them at least their own width apart.











5 Label the pot. Place it in a shady situation in the open. Plunge the pot in damp sand and water, as required, to keep the compost moist.

#### How to Propagate Bulbs from Offsets



In the spring, before active growth begins, lift a clump of bulbs (here Crinum) with a garden fork. Shake excess soil from the roots and pull the clump apart.



Select a large bulb with several well-developed offsets. Clean off the soil from the offsets and pull them away from the parent bulb, taking care to preserve any roots.



Prepare 15cm (6in) pots with a moist, sandy compost. Insert a single offset into each pot, and cover it with about 2.5cm (1in) of compost. Label, and water.

#### How to Scale Lilies



Clean the lily bulb; remove and discard any damaged, outer scales. Gently snap off about 6 good scales, as close as possible to the base of the bulb.



Place some fungicidal powder in a plastic bag and add the scales. Shake the bag gently so that all the scales are thoroughly coated with the fungicide.



Remove any surplus fungicide from the bag. Place the coated scales into a second bag containing a 50:50 mix of peat substitute, or peat, and perlite.



Blow up the bag, then seal and label it. Store at 21°C (70°F) in a warm, dark place.



When small bulblets have developed on the scales, remove the scales if they are soft. If they are fleshy and firm, leave them attached to the bulblets.



Plant the groups of bulblets either singly in small pots or several in a pan. Top-dress the pots with grit, label them, and leave them in a warm, light place.



The following spring, harden off the young bulbs by placing the pots in a cold frame.

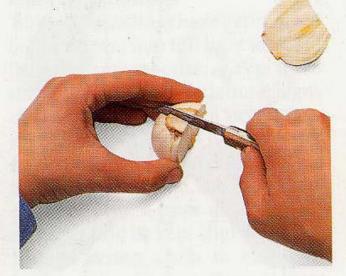


In the autumn, when the bulbs have grown on, remove them from the pots and separate them. Pot them up individually or plant them in their permanent positions.

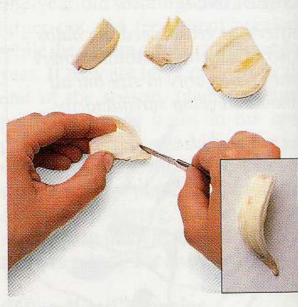
## How to Propagate Bulbs by Twin-scaling



Remove the brown, outer scales of a bulb (here a daffodil). With a sharp knife, trim off the roots without damaging the basal plate, and slice off the nose.



Place the bulb upside down on its cut end. Cut downwards through the basal plate to divide it into small sections, each piece having a section of basal plate.

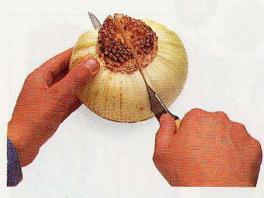


Divide the sections into pairs of scales by peeling back the layers. Use a scalpel to cut each pair away with a piece of the basal plate attached (see inset).

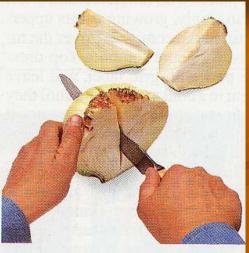
#### How to Propagate Bulbs by Chipping



When the foliage has died down, lift the dormant bulbs and select a healthy, undamaged specimen (here Hippeastrum). Trim off the growing tip and the roots, taking care not to cut into the basal plate.



Place the bulb on a clean cutting surface, with its basal plate uppermost. With a clean, sharp knife, carefully cut down into the bulb, dividing it into halves.



Cut each half of the bulb again in the same way, making sure that the basal plate is divided equally between the individual segments.





Repeat until the bulb has been cut into about 16 chips. Soak them in fungicide for 10–15 minutes, occasionally agitating the container. Drain off any excess moisture.



Half-fill some plastic bags with 11 parts vermiculite, moistened with 1 part water. Put several chips in each bag. Seal the bags with rubber bands or plastic twist-ties. Store in a warm, dark, airy place.



When bulblets appear around the basal plate of the chips, plant the chips individually into 6cm (3in) pots filled with a well-drained potting compost. Place in a sheltered position to grow on.

CUTTING UP BULBS FOR PROPAGATION



Take a large, healthy bulb (here Cyclamen hederifolium) and cut it into 2 or 3 pieces with a clean knife. Each piece must have at least one growing point. Dust the cut surfaces with fungicide.



Leave the pieces on a wire tray in a warm, dry place for 48 hours, until the cut surfaces form a callus (see inset). Pot them up individually into pots containing sharply drained compost.

## How to Propagate Hyacinths by Scooping



Use a clean, sharpened teaspoon, or a knife, to scoop out the inner part of the bulb's basal plate, leaving the outer rim intact. Discard the basal plate.

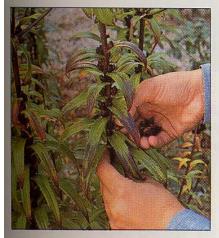


Dip the cut surfaces in fungicide, then lay the bulbs, with their scooped areas uppermost, on a tray of sand. Place the tray in an airing cupboard.

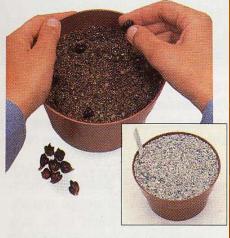


Water the sand lightly as needed to keep it moist. When bulblets form around the edge of the scooped base, separate them from the parent and pot them up.

#### PROPAGATING FROM STEM BULBILS



Throughout late summer, as soon as the bulbils loosen and are ripe, collect them from the leaf axils of the lily stems by carefully picking them off.



Insert the bulbils in pans of moist, loam-based potting compost, pressing them gently into the surface. Cover with grit, and label (see inset). Place in a cold frame until young bulbs develop.



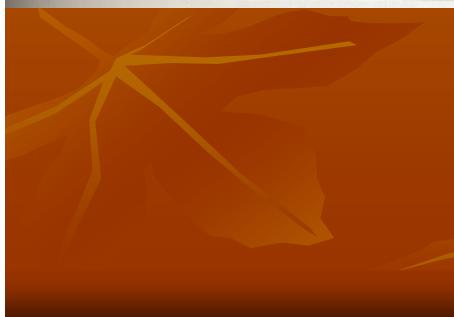
compost, pressing them gently into RAISING LILIES FROM BULBLETS

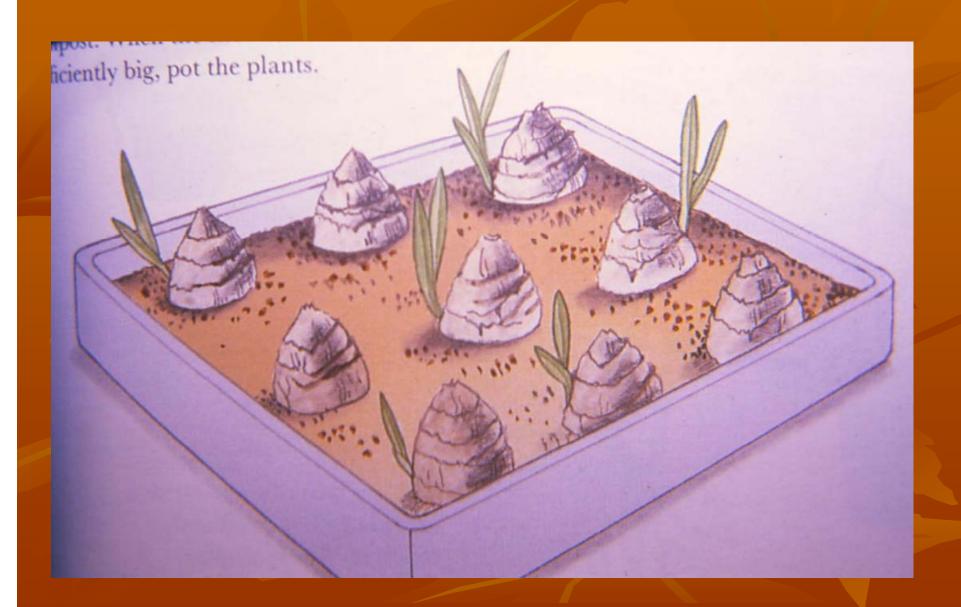


After flowering, lift the bulb and dead stem, pick off the bulblets, and replant the main bulb. Alternatively, leave the bulb in the ground, cutting the stem above it to remove the bulblets.



Plant the bulblets, at twice their own depth, into 13cm (5in) pots of moist, loam-based potting compost. Cover with a layer of grit, label, and place in a cold frame until the spring.





# خواب Dormancy

Endodormancy
Paradormancy
Ecodormancy

# Tuberization

(2°C)

Corm



# (Flower initiation) 5 8

5°C 17 20°C

20 25°C 9 13°C

vernalization Easterlily 2.7 °C aestivation

aestivation (13°C) Pupation

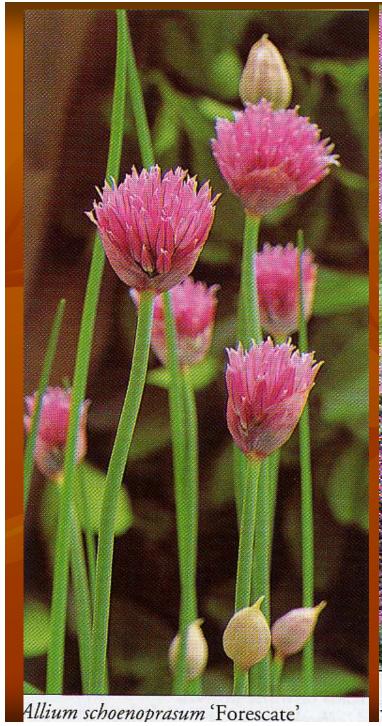




Allium acuminatum



Allium caeruleum





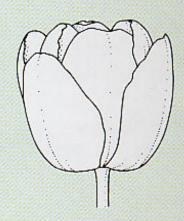
Allium aflatunense



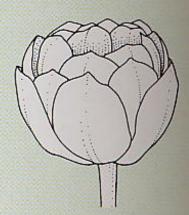


### TULIP FLOWERS

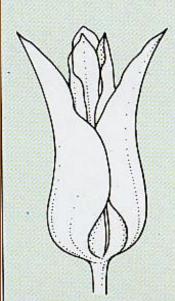
Tulips are valued for their brightly coloured, upright flowers, mainly produced in spring. The flowers may be single or double, and vary in shape from simple cups, bowls, and goblets to more complex forms produced by twisted or rounded tepals.



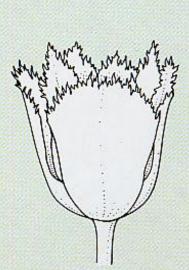




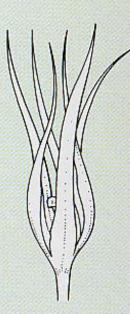
DOUBLE, BOWL-SHAPED



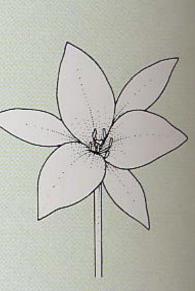
GOBLET-SHAPED



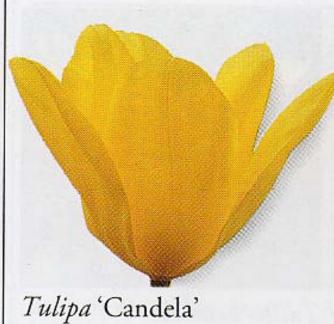
FRINGED



LONG, SLENDER-TEPALLED



STAR-SHAPED





Tulipa 'Cape Cod'

Tulipa 'Carnaval de Nice'



Tulipa clusiana var.



Tulipa 'Don Quichotte'



Tulipa 'Dreamboat'



Tulipa 'Abba'



Tulipa acuminata



Tulipa 'African Queen'



Tulipa 'Ancilla'



Tulipa 'Angélique'



Tulipa 'Apeldoorn'





lipa biflora



Tulipa 'Bing Crosby'



Tulipa 'Bird of Paradise'



Tulipa 'Blue Heron'



Tulipa 'Blue Parrot'



Tulipa 'Burns'



Tulipa 'China Pink'



Tulipa 'Clara Butt'



Tulipa clusiana



Tulipa 'Dreaming Maid'



Tulipa 'Estella Rijnveld'



Tulipa 'Flaming Parrot'



Tulipa 'Golden Apeldoorn' Tulipa 'Golden Artist'





Tulipa 'Golden Oxford'



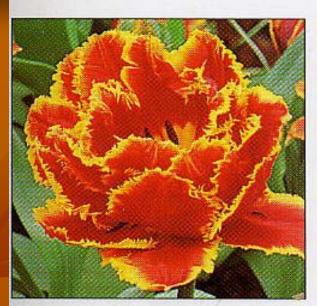
Tulina haveri 'Splendens'



Tulipa 'Hamilton'



Tulipa humilis



Tulipa 'Fringed Beauty'



Tulipa 'Fringed Elegance'



Tulipa 'Generaal De Wet'



Tulipa 'Gordon Cooper'



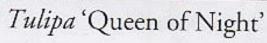
Tulipa 'Groenland'



Tulipa 'Gudoshnik'





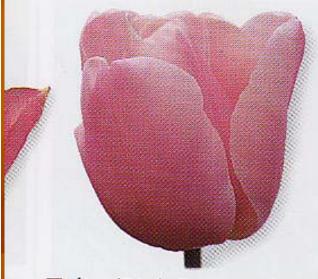




Tulipa 'Queen of Sheba'

Tulipa 'Prinses Irene'

7



Tulipa 'Pink Diamond'



Tulipa 'Plaisir'



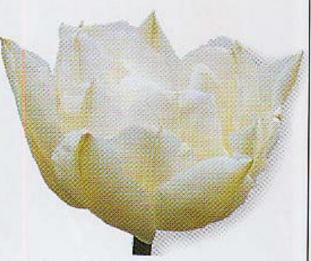
Tulipa praestans 'Van Tubergen's Variety'



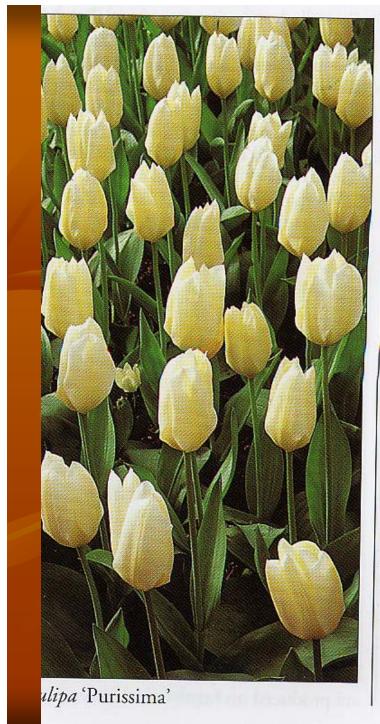
Tulipa 'Red Riding Hood'



Tulipa saxatilis



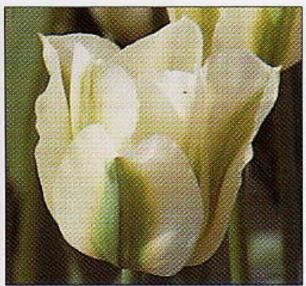
Tulipa 'Schoonoord'







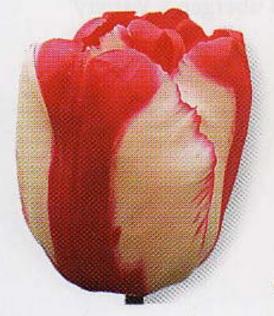
Tulipa sprengeri



Tulipa 'Spring Green'



Tulipa 'Sweetheart'



Tulipa 'Union Jack'



Tulipa violacea



Tulipa 'West Point'



Tulipa sylvestris



Tulipa tarda





Tulipa 'White Parrot'



Tulipa whittallii



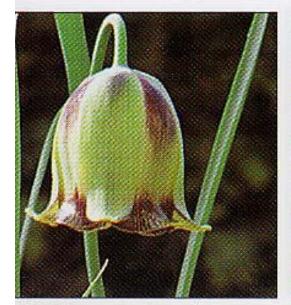
Tulipa 'Yokohama'











illaria acmopetala



Fritillaria biflora 'Martha Roderick'



Fritillaria camschatcensis



illaria chitralensis



Fritillaria cirrhosa



Fritillaria oraeca



Fritillaria latifolia



Fritillaria meleagris



Fritillaria pallidiflora



Fritillaria pudica

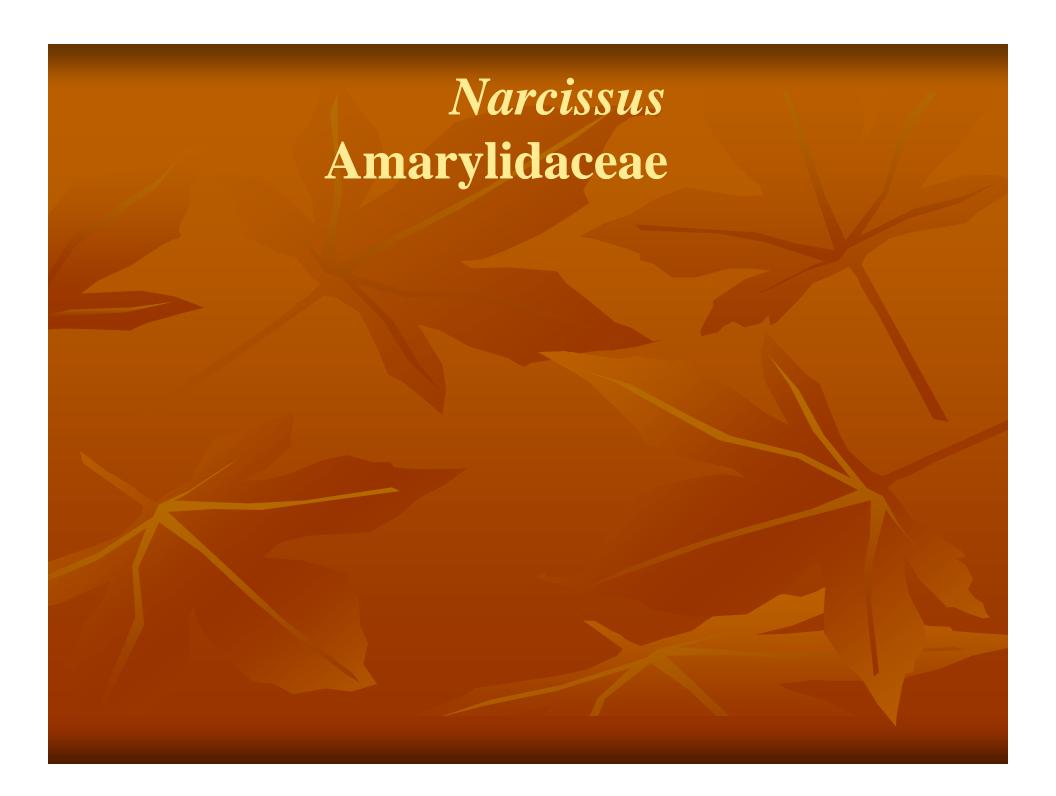


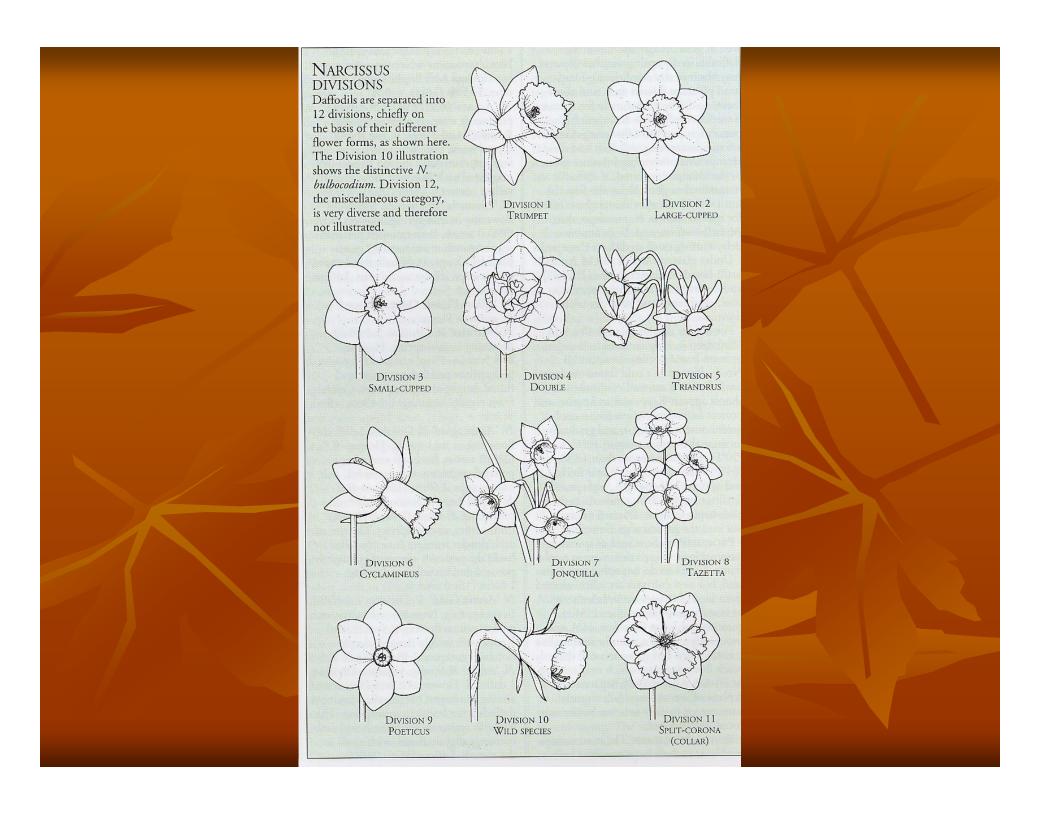
Fritillaria raddeana



Fritillaria thunbergii

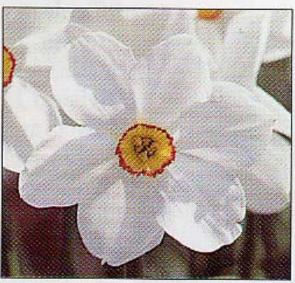








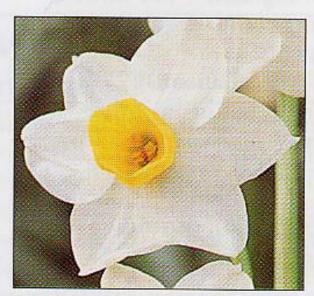
Narcissus 'Acropolis'



Narcissus 'Actaea'



Narcissus 'Aircastle'



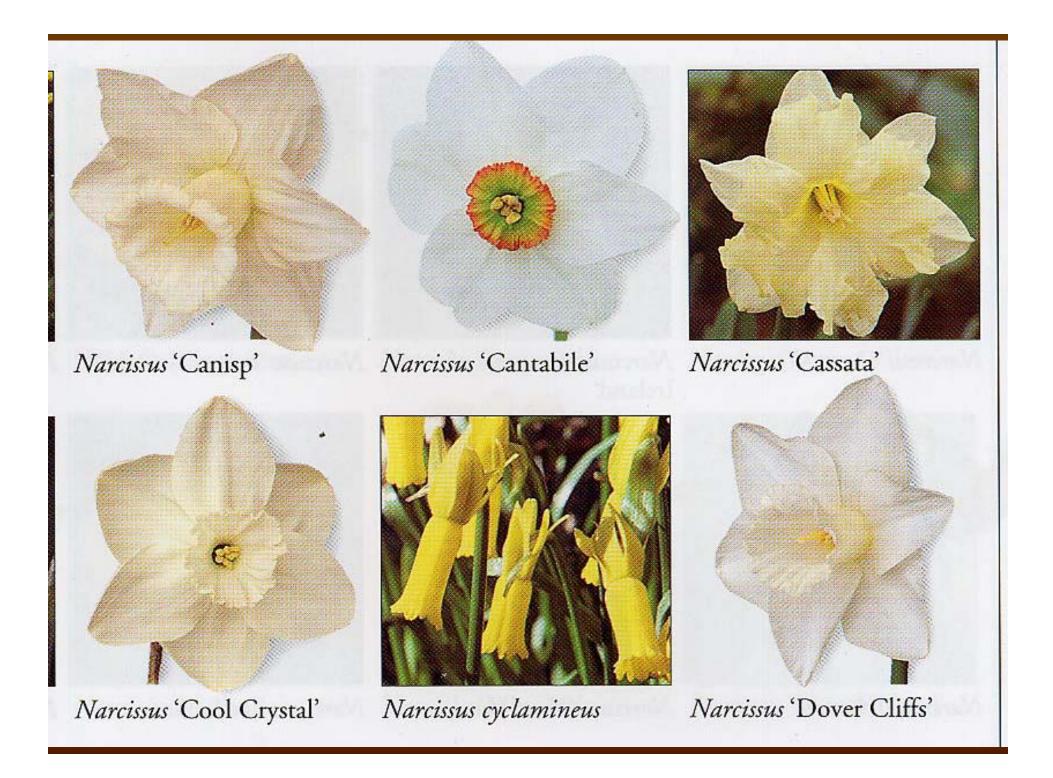
Narcissus 'Avalanche'



Narcissus 'Bartley'



Narcissus 'Belcanto'





Narcissus 'Dove Wings'



Narcissus 'Empress of Ireland'



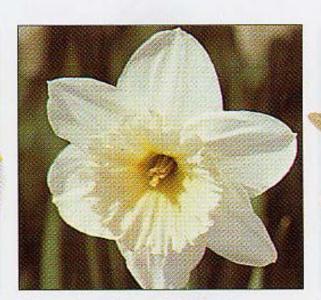
Narcissus 'February Gold'



Narcissus 'Hawera'



Narcissus 'Honeybird'



Narcissus 'Ice Follies'

1



Narcissus 'Scarlet Gem'



Narcissus 'Sealing Wax'



Narcissus 'Shining Light'



Narcissus 'Sweetness'



Narcissus 'Tête-à-Tête'



Narcissus 'Thalia'

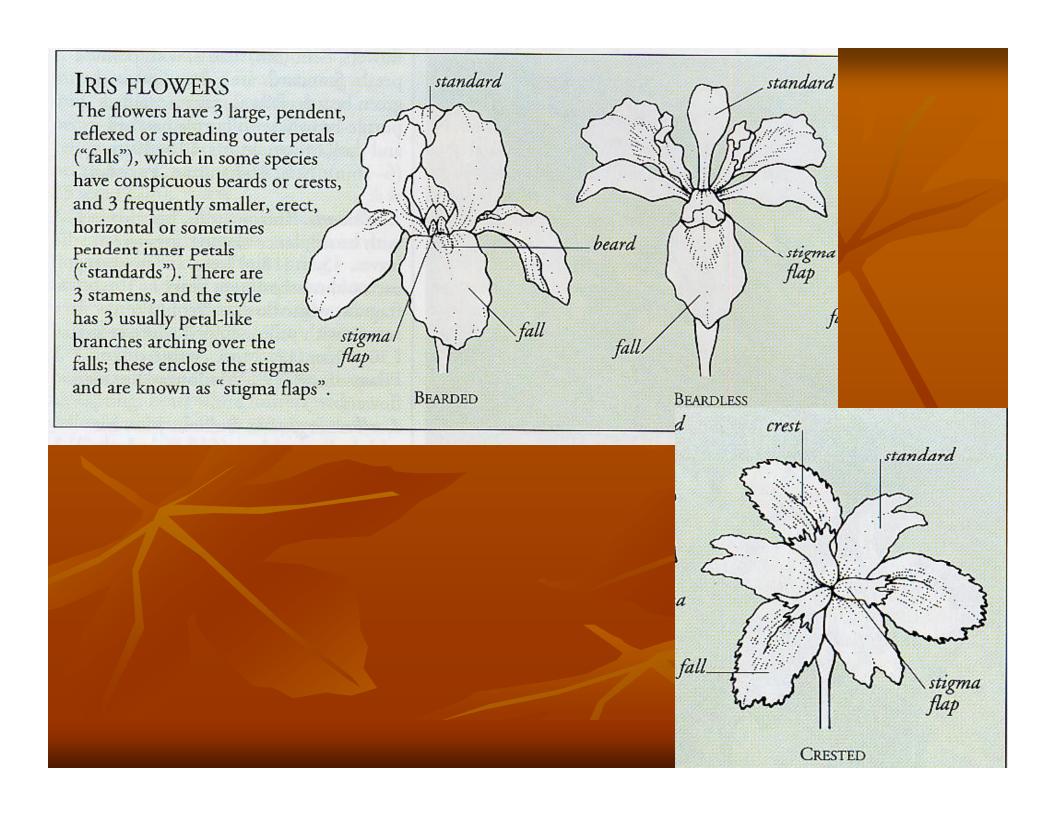






Hyacinthus orientalis 'Ostara'



















Alstroemeria aurea







Alstroemeria 'Margaret'



Alstroemeria pelegrina



Alstroemeria pygmaea









Gladiolus 'Vaucluse'



Gladiolus 'White Ice'



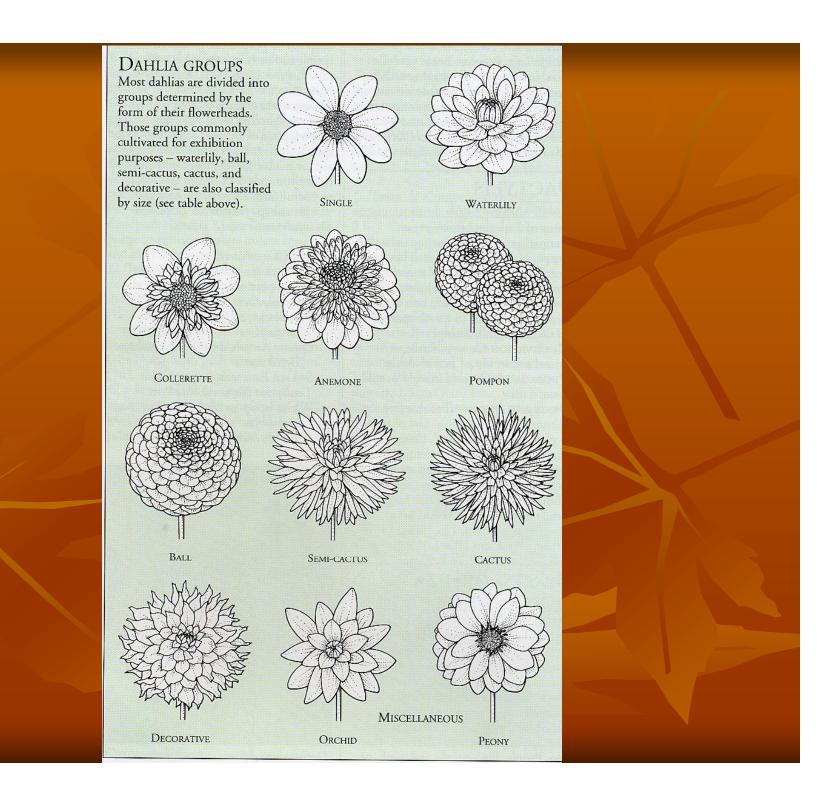
Gladiolus 'Zephyr'







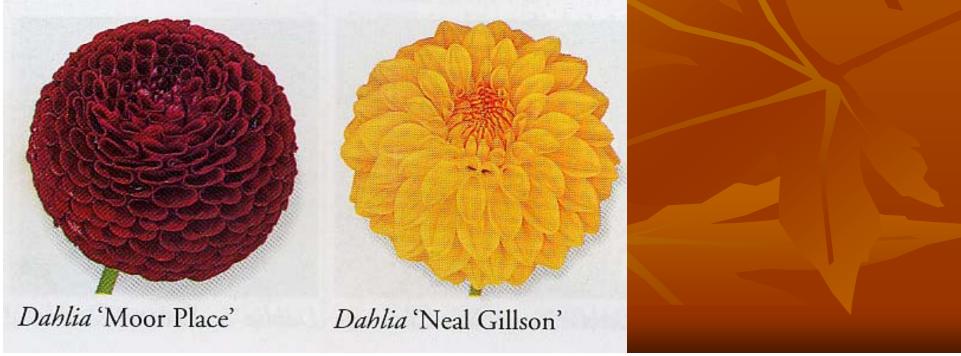










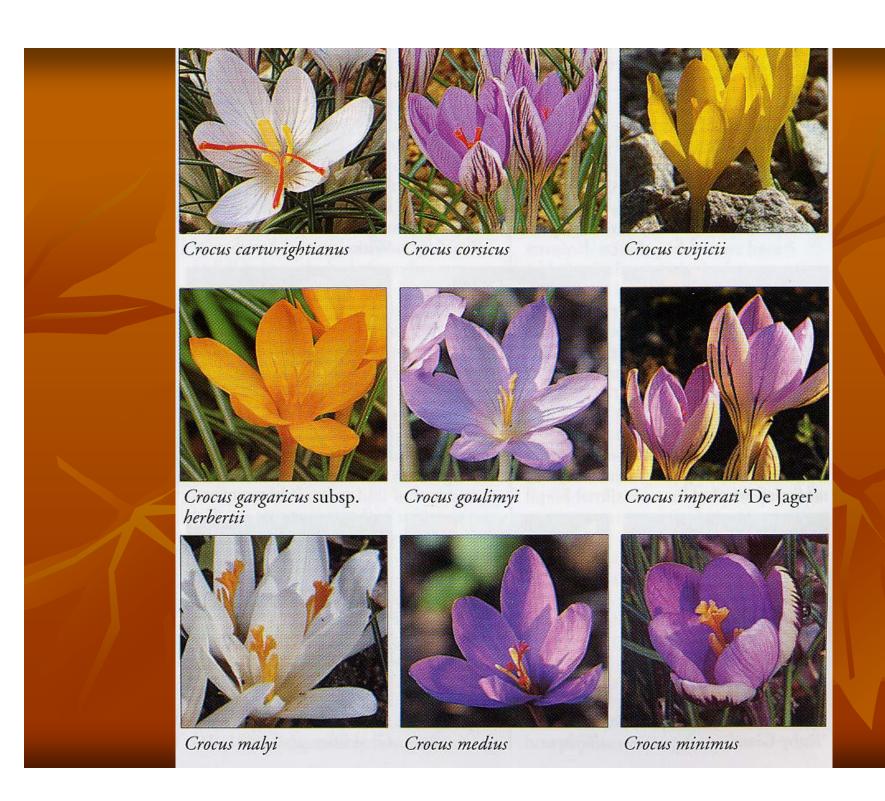




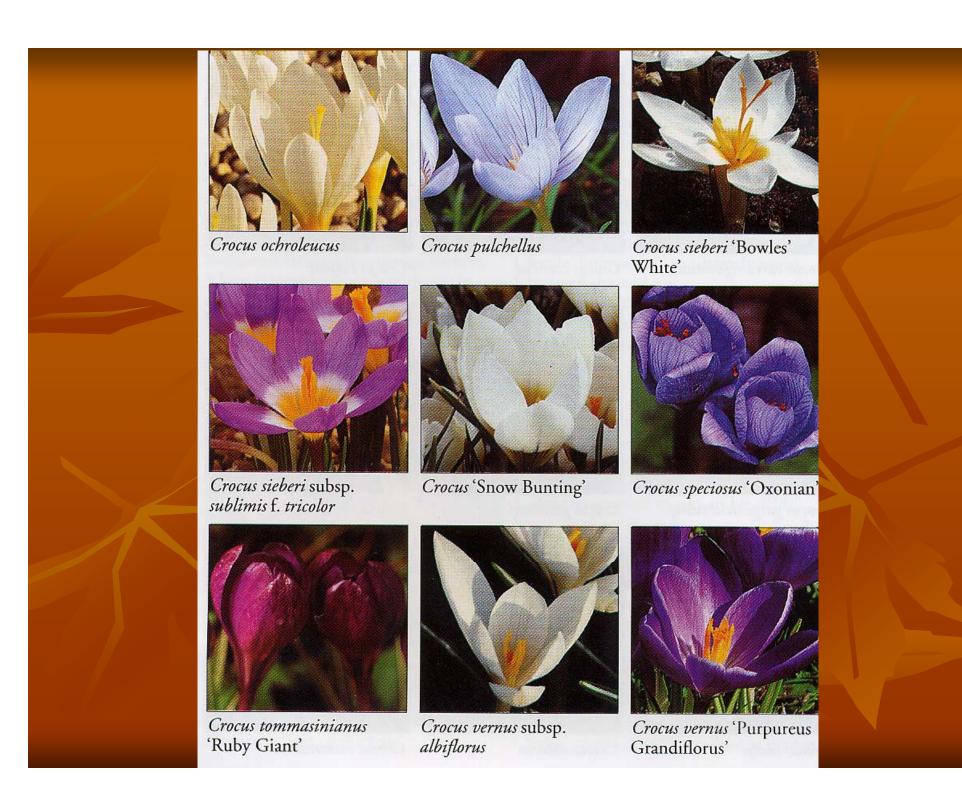






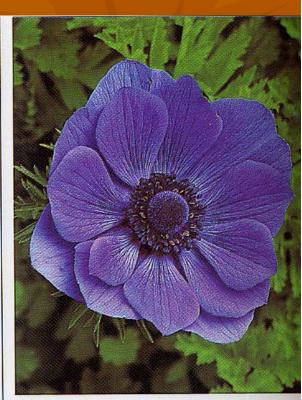








Anemone blanda 'Violet Star'



Anemone coronaria 'Lord Lieutenant'





Anemone coronaria 'The Bride'







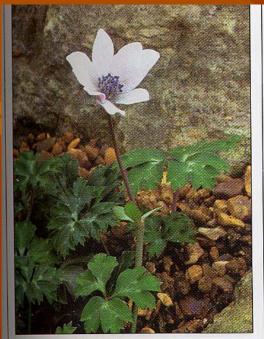


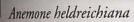


Anemone pavonina

Anemone rivularis

Anemone trullifolia





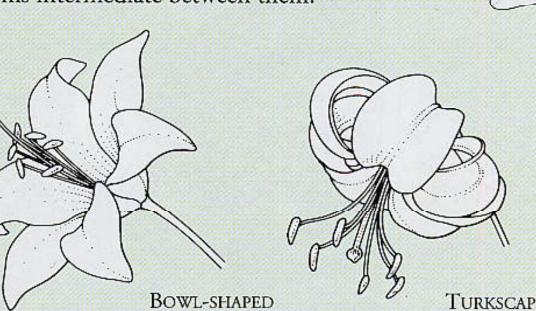


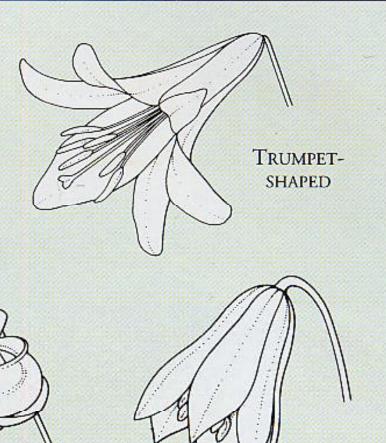
Anemone hupehensis 'Hadspen Abundance' | Anemone x hybrida 'Honorine Jobert'



## LILY FLOWERS

Lilies are valued for their very showy, often fragrant flowers. The 6 plain or strikingly marked tepals are variably curved, giving rise to the different shapes shown here, and to forms intermediate between them.





FUNNEL-

SHAPED



Lilium 'African Queen'



Lilium 'Angela North'



Lilium 'Ariadne'



ilium 'Bright Star'



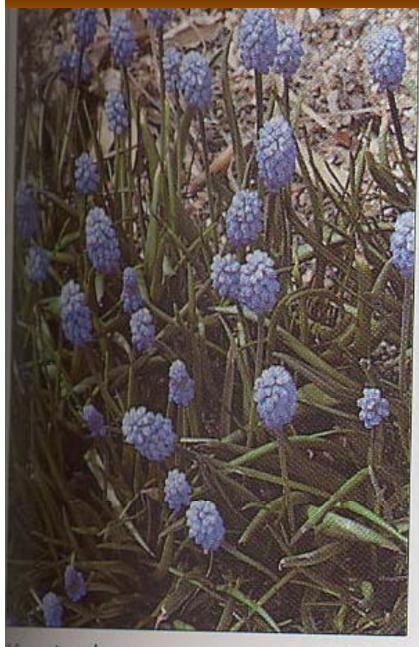
Lilium 'Bronwen North'



Lilium canadense





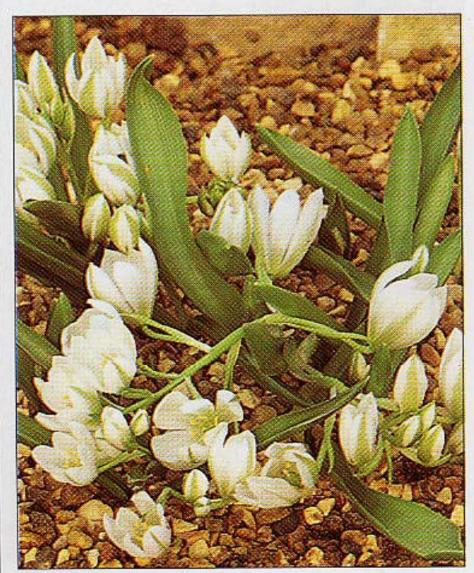


Muscari aucheri



Muscari macrocarpum

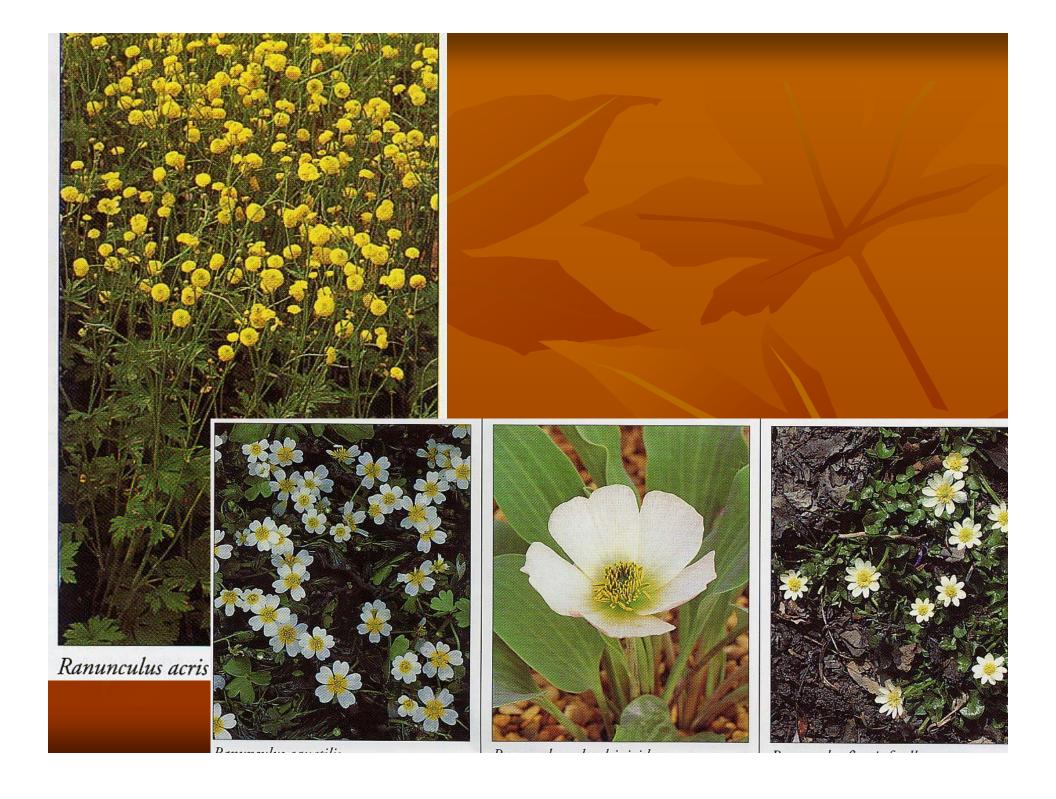




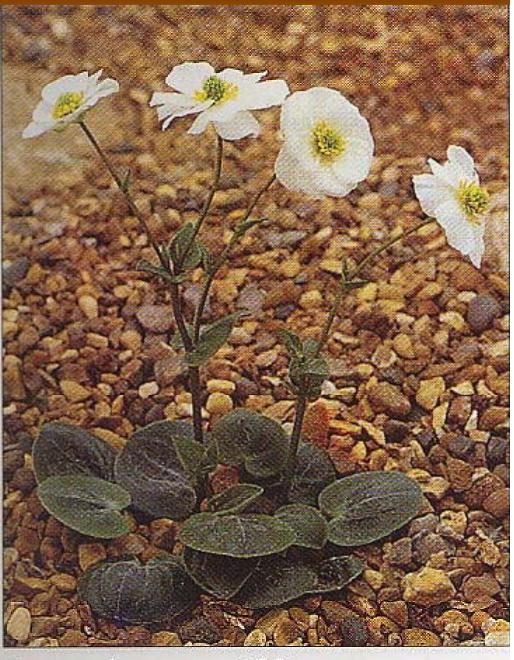
Ornithogalum balansae



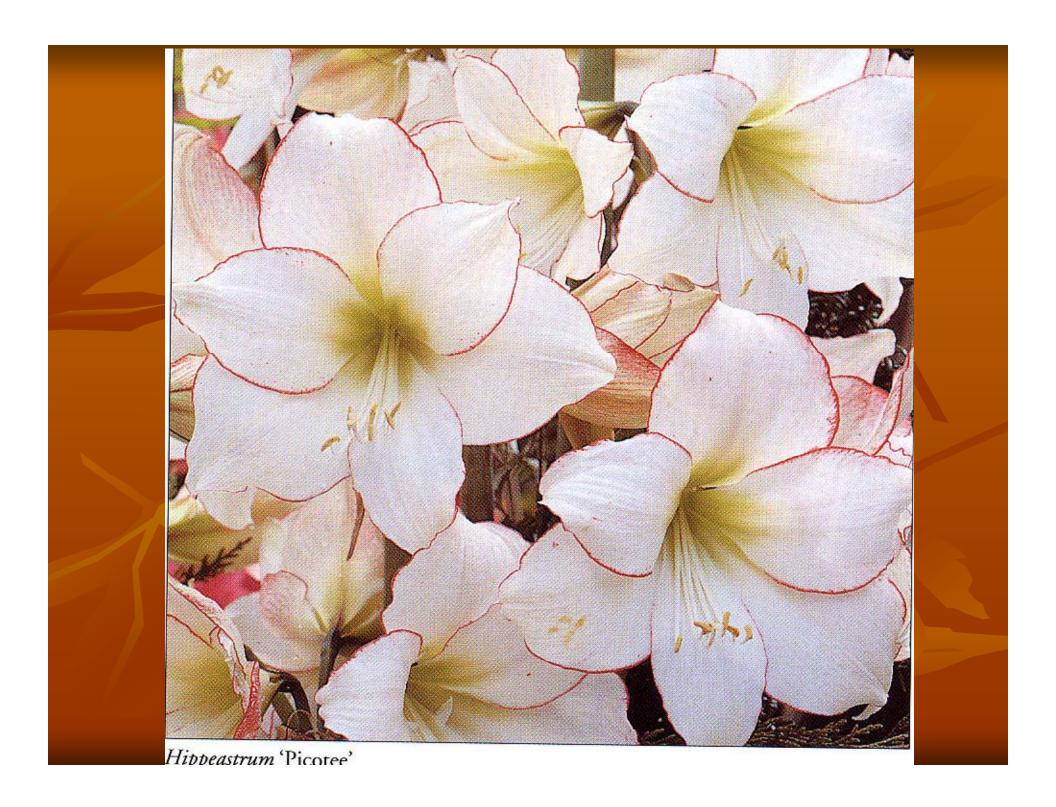
Ornithogalum montanum

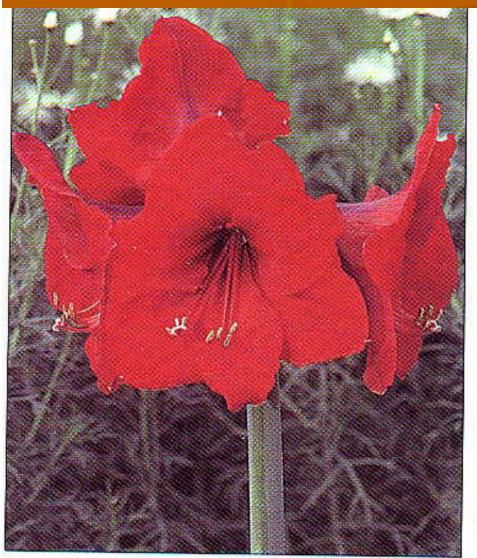






Ranunculus parnassiifolius





Hippeastrum 'Red Lion'



Hippeastrum reticulatum var. striatifolium

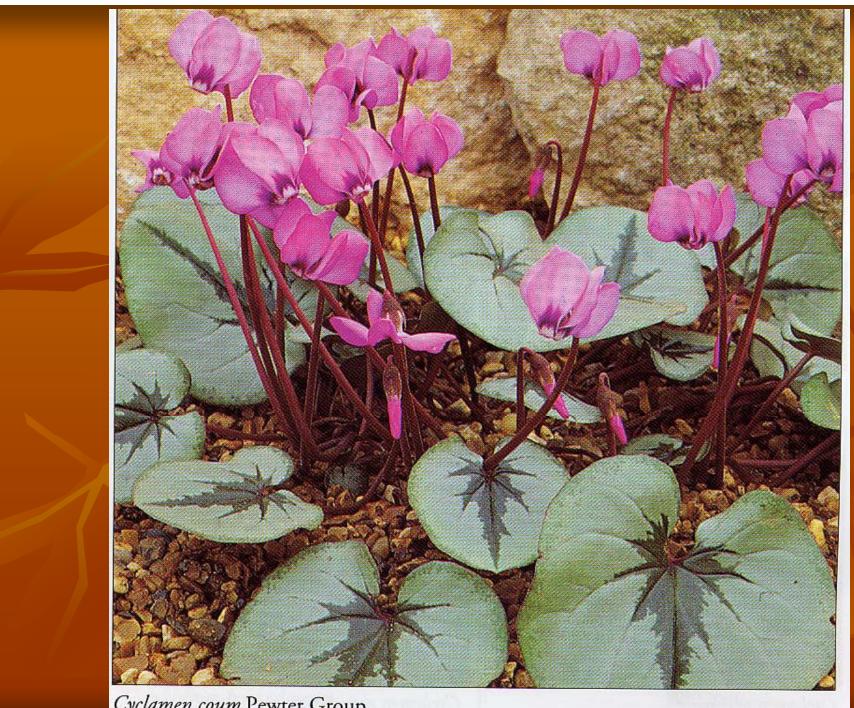


x Amarygia parkeri



Amaryllis belladonna





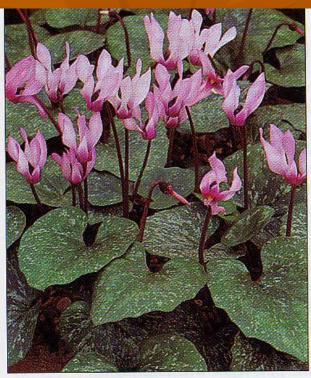
Cyclamen coum Pewter Group



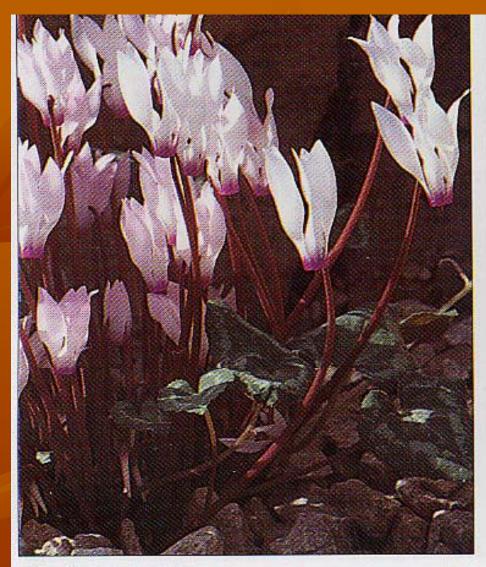
Cyclamen libanoticum



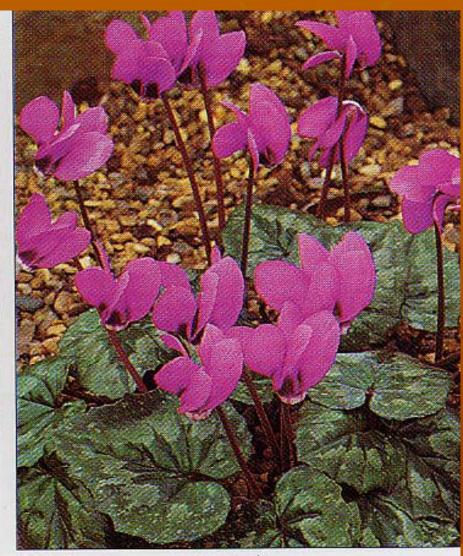
Cyclamen persicum Sierra Series 'Sierra White'



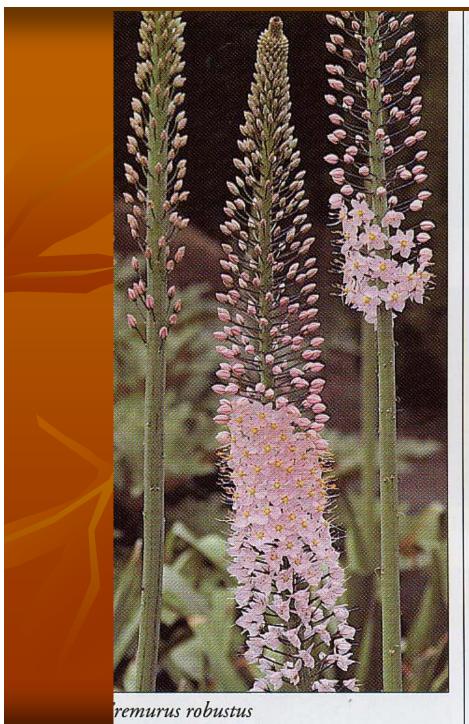
Cyclamen repandum subsp. peloponnesiacum

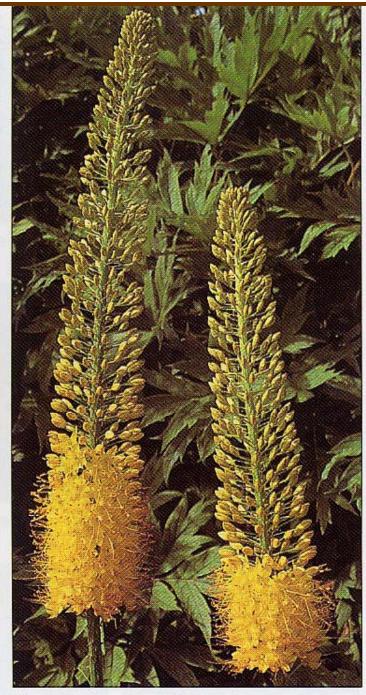


Cyclamen persicum



Cyclamen pseudibericum





Eremurus stenophyllus





Colchicum agrippinum



Colchicum autumnale



Colchicum bivonae



Colchicum byzantinum



Colchicum cilicicum



Colchicum kesselringii



Colchicum luteum



Colchicum 'The Giant'



Colchicum 'Waterlily'