= 5 (11) and Narcissus, n =

7 (13). He further subdivided these into ten sections (Apodanthi, Aurelia, Bulbocodii, Ganymedes, Jonquillae, Narcissus, Pseudonarcissi, Serotini, Tapeinanthus, Tazettae), as did Blanchard later.

In contrast to Fernandes , Webb 's treatment of the genus for the Flora Europaea (1978 , 1980) prioritised morphology over genetics , and abandoned the subgenera ranks . He also restored De Candolle 's original nomenclature , and made a number of changes to section Jonquilla , merging the existing subsections , reducing Apodanthi to a subsection of Jonquilla , and moving N. viridiflorus from Jonquilla to a new monotypic section of its own (Chloranthi) . Finally , he divided Pseudonarcissus into two subsections . Blanchard (1990) , whose Narcissus : a guide to wild daffodils has been very influential , adopted a simple approach , restoring Apodanthae , and based largely on ten sections alone .

The Royal Horticultural Society (RHS) currently lists ten sections, based on Fernandes (1968), three of which are monotypic (contain only one species), while two others only containing two species. Most species are placed in Pseudonarcissus While infrageneric groupings within Narcissus have been relatively constant, their status (genera, subgenera, sections, subsections, series, species) has not. Some authors treat some sections as being further subdivided into subsections, e.g. Tazettae (3 subsections). These subdivisions correspond roughly to the popular names for narcissi types, e.g. Trumpet Daffodils, Tazettas, Pheasant 's Eyes, Hoop Petticoats, Jonquils.

While Webb had simply divided the genus into sections , Mathew found this unsatisfactory , implying every section had equal status . He adapted both Fernandes and Webb to devise a more hierarchical scheme he believed better reflected the interrelatinships within the genus . Mathew 's scheme consists of three subgenera (Narcissus , Hermione and Corbularia) . The first two subgenera were then divided into five and two sections respectively . He then further subdivided two of the sections (subgenus Narcissus section Jonqullae , and subgenus Hermione section Hermione) into three subsections each . Finally , he divided section Hermione subsection Hermione further into two series , Hermione and Albiflorae . While lacking a phylogenetic basis , the system is still in use in horticulture . For instance the Pacific Bulb Society uses his numbering system (see Table II) for classifying species .

= = = Phylogenetics = = =

The phylogenetic analysis of Graham and Barrett (2004) supported the infrageneric division of Narcissus into two clades corresponding to the subgenera Hermione and Narcissus , but does not support monophyly of all sections , with only Apodanthi demonstrating clear monophyly , corresponding to Clade III of Graham and Barrett (see Cladogram) , although some other clades corresponded approximately to known sections . These authors examined 36 taxa of the 65 listed then , and a later extended analysis by Rønsted et al . (2008) with five additional taxa confirmed this pattern .

A very large (375 accessions) molecular analysis by Zonneveld (2008) utilising nuclear DNA content sought to reduce some of the paraphyly identified by Graham and Barrett . This led to a revision of the sectional structure , shifting some species between sections , eliminating one section and creating two new ones . In subgenus Hermione , Aurelia was merged with Tazettae . In subgenus Narcissus section Jonquillae subsection Juncifolii was elevated to sectional rank , thus resolving the paraphyly in this section observed by Graham and Barrett in Clade II due to this anomalous subsection , the remaining species being in subsection Jonquillae , which was monophyletic . The relatively large section Pseudonarcissi was divided by splitting off a new section , Nevadensis (species from southern Spain) leaving species from France , northern Spain and Portugal in the parent section . At the same time Fernández @-@ Casas (2008) proposed a new monotypic section Angustini to accommodate Narcissus deficiens , placing it within subgenus Hermione .

While Graham and Barrett (2004) had determined that subgenus Hermione was monophyletic, using a much larger accession Santos @-@ Gally et al. (2011) did not. However the former had

excluded species of hybrid origins , while the latter included both N. dubius and N. tortifolius . If these two species are excluded (forming a clade with subgenus Narcissus) then Hermione can be considered monophyletic, although as a section of Hermione, Tazettae is not monophyletic. They also confirmed the monophyly of Apodanthi.

Some so @-@ called nothosections have been proposed, predominantly by Fernández @-@ Casas, to accommodate natural ('ancient') hybrids (nothospecies).

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= = = Subgenera and sections = = =
Showing revisions by Zonnefeld (2008)
subgenus Hermione ( Haw . ) Spach .
( Aurelia ( Gay ) Baker ( monotypic ) - merged with Tazettae ( 2008 )
Serotini Parlatore (2 species)
Tazettae de Candolle (16 species) syn . Hermione (Salisbury) Sprengel, in Fernandes 'scheme
. Incorporating Aurelia ( 2008 )
subgenus Narcissus L.
Apodanthi A. Fernandes (6 species)
Bulbocodium de Candolle (11 species)
Ganymedes ( Haworth ) Schultes f . ( monotypic )
Jonquillae de Candolle (8 species)
Juncifolii ( A. Fern . ) Zonn. sect. nov . ( 2008 )
Narcissus L. (2 species)
Nevadensis Zonn. sect. nov . (2008)
Pseudonarcissus de Candolle (36 species) Trumpet daffodils
Tapeinanthus (Herbert ) Traub (monotypic)
= = = Species = = =
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Estimates of the number of species in Narcissus have varied widely , from anywhere between 16 to nearly 160 , even in the modern era . Linnaeus originally included six species in 1753 . By the time of the 14th edition of the Systema Naturae in 1784 , there were fourteen . The 1819 Encyclopaedia Londinensis lists sixteen (see illustration here of three species) and by 1831 Adrian Haworth had described 150 species .

Much of the variation lies in the definition of species , and whether closely related taxa are considered separate species or subspecies . Thus , a very wide view of each species , such as Webb 's results in few species , while a very narrow view such as that of Fernandes results in a larger number . Another factor is the status of hybrids , given natural hybridisation , with a distinction between 'ancient hybrids 'and 'recent hybrids'. The term 'ancient hybrid' refers to hybrids found growing over a large area , and therefore now considered as separate species , while 'recent hybrid' refers to solitary plants found amongst their parents , with a more restricted range .

In the twentieth century Fernandes (1951) accepted 22 species, on which were based the 27 species listed by Webb in the 1980 Flora Europaea. By 1968, Fernandes had accepted 63 species, and by 1990 Blanchard listed 65 species, and Erhardt 66 in 1993. In 2006 the Royal Horticultural Society 's (RHS) International Daffodil Register and Classified List listed 87 species, while Zonneveld 's genetic study (2008) resulted in only 36. As of September 2014, the World Checklist of Selected Plant Families accepts 52 species, along with at least 60 hybrids, while the RHS has 81 accepted names in its October 2014 list.

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= = Evolution = =
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Within the Narcisseae, Narcissus (western Mediterranean) diverged from Sternbergia (Eurasia) some time in the Late Oligocene to Early Miocene eras, around 29 @.@ 3? 18 @.@ 1 Ma, with a best estimate of 23 @.@ 6 Ma. Later the genus divided into the two subgenera (Hermione and

Narcissus) between 27 @.@ 4 ? 16 @.@ 1 Ma (21 @.@ 4 Ma) . The divisions between the sections of Hermione then took place during the Miocene period 19 @.@ 9 ? 7 @.@ 8 Ma .

Narcissus appears to have arisen in the area of the Iberian peninsula , southern France and north @-@ western Italy , and within this area most sections of the genus appeared , with only a few taxa being dispersed to North Africa at a time when the African and West European platforms were closer together . Subgenus Hermione in turn arose in the southwestern mediterranean and north west Africa . However , these are reconstructions , the Amaryllidaceae lacking a fossil record .

= = Etymology = =

= = = Narcissus = = =

The derivation of the Latin narcissus (Greek: ?????????) is unknown. It may be a loanword from another language, for instance it is said to be related to the Sanskrit word nark, meaning 'hell'. It is frequently linked to the Greek myth of Narcissus described by Ovid in his Metamorphoses, who became so obsessed with his own reflection that as he knelt and gazed into a pool of water, he fell into the water and drowned. In some variations, he died of starvation and thirst. In both versions, the narcissus plant sprang from where he died. Although Ovid appeared to describe the plant we now know as Narcissus there is no evidence for this popular derivation, and the person 's name may have come from the flower 's name . The Poet 's Narcissus (N. poeticus) , which grows in Greece, has a fragrance that has been described as intoxicating. Again, this explanation lacks any real proof and is largely discredited. Pliny wrote that the plant? narce narcissum dictum, non a fabuloso puero? (named narcissus from narce, not from the legendary youth), i.e. that it was named for its narcotic properties (?????? narkao, "I grow numb" in Greek), not from the legend. Furthermore, there were accounts of narcissi growing, such as in the legend of Persephone, long before the story of Narcissus appeared (see Greek culture) . It has also been suggested that daffodils bending over streams evoked the image of the youth admiring his own reflection in the water.

Linnaeus used the Latin name for the plant in formally describing the genus, although Matthias de l'Obel had previously used the name in describing various species of Narcissi in his Icones stirpium of 1591, and other publications, as had Clusius in Rariorum stirpium (1576).

The plural form of the common name narcissus has caused some confusion . British English sources such as the Shorter Oxford English Dictionary give two alternate forms , narcissi and narcissuses . In contrast , in American English the Merriam @-@ Webster Dictionary provides for a third form , narcissus , used for both singular and plural . The Oxford dictionaries only list this third form under American English , although the Cambridge Dictionary allows of all three in the same order . However , Garner 's Modern American Usage states that narcissi is the commonest form , narcissus being excessively sibilant . For similar reasons , Fowler prefers narcissi in British English usage . Neither support narcissus as a plural form . Common names such as narcissus do not capitalise the first letter in contrast to the person of that name and the Latin genus name .

The name Narcissus (feminine Narcissa) was not uncommon in Roman times, such as Tiberius Claudius Narcissus, a Roman official in Claudius time, an early New Testament Christian in Rome and later bishops and saints.

= = = Daffodil = = =

The word daffodil was unknown in the English language before the sixteenth century. The name is derived from an earlier affodell, a variant of asphodel. In classical Greek literature the narcissus is frequently, referred to as the asphodel, such as the meadows of the Elysian fields in Homer (see Antiquity). Asphodel in turn appears to be a loanword coming from French via Mediaeval Latin affodilus from Classical Latin asphodilus and ultimately the Greek asphodelos (Greek: ?????????). The reason for the introduction of the initial d is not known, although a probable source is an

etymological merging from the Dutch article de, as in de affodil, or English the, as th 'affodil or t 'affodil, hence daffodil, and in French de and affodil to form fleur d'aphrodille and daphrodille.

From at least the 16th century , daffadown dilly and daffydowndilly have appeared as playful synonyms of the name . In common parlance and in historical documents , the term daffodil may refer specifically to populations or specimens of the wild daffodil , N. pseudonarcissus . Ellacombe suggests this may be from Saffon Lilly , citing Prior in support , though admittedly conjectural .

Lady Wilkinson (1858), who provides an extensive discussion of the etymology of the various names for this plant, suggests a very different origin, namely the Old English word affodyle (that which cometh early), citing a 14th @-@ century (but likely originally much earlier) manuscript in support of this theory, and which appears to describe a plant resembling the daffodil. Ellacombe provides further support for this from a fifteenth century English translation of Palladius that also refers to it.

= = = Jonquil = = =

The name jonquil is said to be a corruption via French from the Latin juncifolius meaning rush @-@ leaf (Juncaceae) and its use is generally restricted to those species and cultivars which have rush like leaves , e.g. N. juncifolius .

= = = Other = = = =

A profusion of names have attached themselves in the English language, either to the genus as a whole or to individual species or groups of species such as sections. These include narcissus, jonquil, Lent lily, Lenten lily, lide lily, yellow lily, wort or wyrt, Julians, glens, Lent cocks, corn flower, bell rose, asphodel, Solomon 's lily, gracy day, haverdrils, giggary, cowslip, and crow foot.