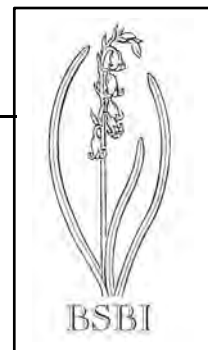


# Plant Crib



## NUPHAR

*N. lutea* and *N. pumila* may show considerable local variability but form reasonably homogeneous units throughout Europe. Their hybrid, *N. × spenneriana* (*N. × intermedia*), is also relatively uniform and often occurs in the absence of both parents. Introgression is rare (Heslop-Harrison 1953).

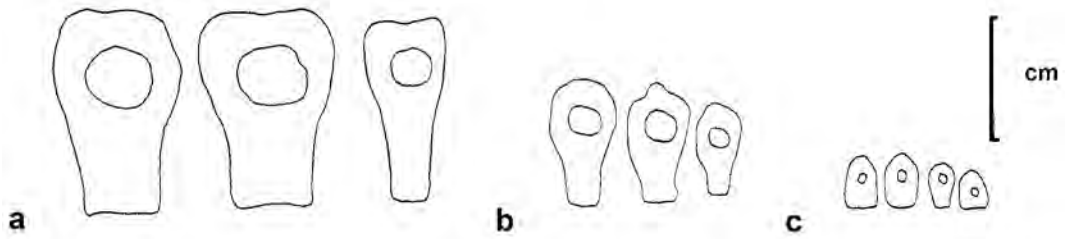
The following Table and diagrams have been abstracted from Heslop-Harrison (1953). Measurements refer to FRESH specimens as material usually shrinks considerably (10-20%) when dried. Leaf characters are given, but it is probably best to confirm identification based on these using floral characters. *N. × spenneriana* usually has a low fertility, the fruits ripen normally but *c.* 80% of the seeds abort.

Please note figures in Table are means: It is not stated whether the error ranges given in Heslop-Harrison (1953) are standard errors or standard deviations

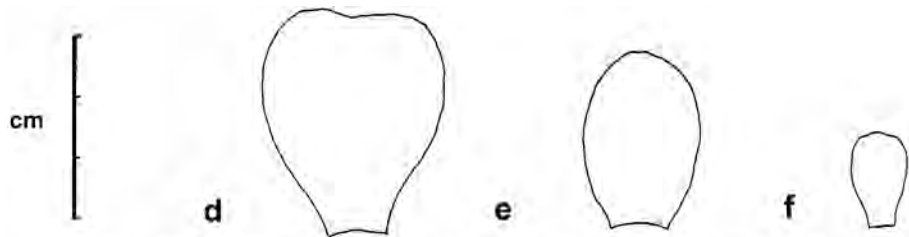
	<i>N. lutea</i> (L.) Sm.	<i>N. × spenneriana</i> Gaudin	<i>N. pumila</i> (Timm) DC.
Largest sepal	34 × 32 mm (Fig. a)	25 × 20 mm (Fig. b)	20 × 13 mm (Fig. c)
Largest petal	15 mm long (Fig. d)	8 mm long (Fig. e)	5 mm long (Fig. f)
Stigmatic disc	Variable; 12.4 mm across, rays linear to elliptic, margin entire (rarely sinuate) (Fig. g)	9.2 mm across, rays narrowly elliptic, margin distinctly undulate (Fig. h)	8 mm across, rays linear, margins uniformly deeply scalloped (Fig. i)
No. carpels/ stigma rays	(12-)13-20(-21)	9-13(-14)	8-11
Leaves - max. length × width	30 × 26 cm	15 × 11 cm	13 × 10 cm
Leaves	23-28 lateral veins	15-22 lateral veins	11-18 lateral veins
Petiole cross section	± Triangular	Narrowly triangular	Elliptic or lens-shaped, but may have slight angles
Vascular bundles	17-23	8-13	7-12

# Plant Crib

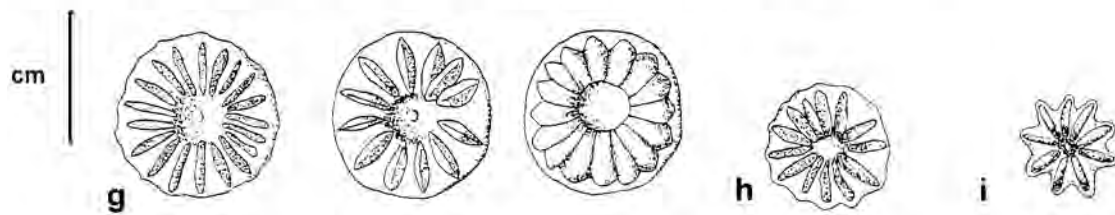
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Sepal shapes of (a) *N. lutea*, (b) *N. × spenneriana*, (c) *N. pumila*.



Petal shapes of *Nuphar*: (d) *N. lutea*, (e) *N. × spenneriana*, (f) *N. pumila*.



Characteristic stigmatic disc forms of (g) *N. lutea*, (h) *N. × spenneriana*, (i) *N. pumila*.

*Reference* Heslop-Harrison, Y. (1953). *Watsonia* 3: 7-25.