

## Matchmaker: Mushrooms of the Pacific Northwest

Below are written descriptions and images of fruiting bodies, mushrooms, of the fungal species in this ectomycorrhizal association. The information is from the web version of the Matchmaker: Mushrooms of the Pacific Northwest (MMPNW) created by the Canadian Forest Service and based on the Windows MMPNW version 1.3 by Ian and Eli Gibson.

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**LATIN NAME(S)** *Hygrophorus calophyllus* Karsten Bidr. Finl. Nat. Folk 3: 375. 1876; *Hygrophorus camarophyllus* var. *calophyllus* (Karst.) Konr. & Maubl.; *Hygrophorus caprinus* var. *calophyllus* (Karst.) Quelet

**ENGLISH NAME(S)** gray-brown waxy-cap

**NOTES** features include dark viscid or slimy cap that contrasts with white or pink waxy gills, and stem cap-colored or somewhat paler up to an abrupt change to white just below the gills; Hesler & Smith examined collections from WA, OR, ID, and also PQ, CA, CO, Austria

**CAP** 4-11cm, convex to broadly umbonate or flat; "evenly colored deep olive-brown to dark gray-brown to umber, the margin sometimes slightly paler"; viscid or slimy when moist, smooth, (Arora), 5-11cm, convex, obtuse, or with a low umbo and downcurved margin, nearly flat when old; "raw umber," "dresden brown" or "olive brown" over all or slightly paler near margin'; glutinous to viscid, bald beneath the slime, (Hesler)

**FLESH** soft, thick; whitish, (Arora), thick; whitish, unchanging, (Hesler)

**GILLS** usually decurrent, well-spaced, thick, soft, waxy; white or flushed a delicate pink, (Arora), decurrent, subdistant to distant, narrow; evenly flushed a pale pink or at times white or in one collection salmon, not spotted, (Hesler)

**STEM** 5-12cm x 1-1.5cm, equal or narrowing downwards, top white, otherwise colored like cap but usually slightly paler; smooth, not viscid, (Arora), 6-10(12)cm x 1.0-1.5cm, equal or slightly enlarged in upper part, solid; "buffy brown" up to an abruptly paler zone at line of gill attachment, the basal buried part gray; dry, bald and unpolished or with top slightly fibrillose-pruinose, (Hesler)

**VEIL** absent (Arora)

**ODOR** mild or slightly fragrant (Arora), faintly fragrant (Hesler)

**TASTE** mild (Hesler)

**EDIBILITY** yes (Arora)

**HABITAT** solitary or in small groups on ground under conifers, (Arora), singly, under fir and pine, (Hesler)

**SPORE DEPOSIT** white (Arora)



Ben Woo

**MICROSCOPIC** spores 5.5-8 x 4-5 microns, elliptic, smooth, (Arora), spores 5.5-8 x 4-5 microns, elliptic, smooth, inamyloid; basidia 2- and 4-spored, 40-60 x 6-8 microns, sterigmata stout; pleurocystidia and cheilocystidia none; gill tissue divergent; clamp connections on cuticular and gill trama hyphae, (Hesler)

**NAME ORIGIN** means 'with beautiful gills'

**SIMILAR** camarophyllus which has a dry to only slightly viscid never slimy streaked grayish-brown cap and white to grayish-tinted never pink gills; like hypothejus and olivaceoalbus somewhat but stem not viscid; like marzuolus somewhat but it is entirely pallid when young soon becoming grayish including gills

**SOURCES** Hesler\*, Arora, Courtecuisse\*, PNW keys

**FAMILY** Tricholomataceae of Order Agaricales