

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) *Marasmius scorodoni* (Fr.) Fr. *Epicr. Myc.* 379. 1838

NOTES features include dry radially wrinkled cap that is orange brown to light brown, narrow adnate or adnexed gills that are whitish, tough bald stem that is darker below, garlic odor and taste, growth on coniferous debris, and size of spores; distribution in Pacific Northwest is uncertain due to confusion with other garlic *Marasmius* species, particularly *copelandii*; in CA Desjardin indicates only a single collection from Humboldt County, found also in Europe

CAP 0.4-2.0cm, convex when young, flat-convex or flat when old, rarely depressed; disc brown or light brown, margin light brown, brownish orange or grayish orange, sometimes fading to orange-buff; bald, dull, smooth or minutely rugulose (wrinkled), (Desjardin), 1-3cm, broadly convex expanding to nearly flat, with an inturned margin that becomes wavy; reddish or yellowish brown becoming faded; dry, smooth, radially wrinkled, (Phillips)

FLESH thin; yellowish white, (Desjardin)

GILLS adnate or adnexed, close or subdistant, narrow, rarely forked or interveined, 2-3 tiers of subgills; white or pale yellowish white, (Desjardin), adnate or nearly free, crowded, narrow, often forked; yellowish pink to pallid, (Phillips)

STEM 2-6cm x 0.05-0.2cm, equal, round or rarely flattened, tough, subinsititious; top brownish orange or paler, base brown, reddish brown or dark reddish brown; bald, often shiny, (Desjardin), 1.5-6cm x 0.1-0.3cm, round to compressed, brittle; yellowish white toward the top, dark brown below; dry, smooth, shining, (Phillips)

ODOR alliaceous (Desjardin), of onions or garlic (Phillips)

TASTE alliaceous (Desjardin), of onions or garlic (Phillips)

EDIBILITY yes (Phillips)

HABITAT scattered to gregarious on coniferous debris in forests with *Tsuga heterophylla* (Desjardin), scattered or in groups on debris, bark, twigs, grass, needle duff, (Phillips), on twigs and debris, commonly on dead fern stems or needles in Douglas fir forests, (Ammirati)

SPORE DEPOSIT white (Phillips)

MICROSCOPIC spores 7.8-9 x 3.3-4.2 microns, elliptic or elongate-lacrymoid, (Desjardin); basidia 4-spored, 25.8-36 x 6-9, clavate; pleurocystidia little differentiated, acuminate, cheilocystidia abundant, 16.8-33.6 x 5.4-9 microns, cylindric or clavate, diverticulate, colorless, thin-walled, diverticula 2.1-9 x 1.2-2.1 microns, numerous, irregular, knoblike, or cylindric, often lobed or branched, (Desjardin), spores 7-10 x 3-5 microns, elliptic, smooth, (Phillips)

NAME ORIGIN is from Greek meaning "garlicky"

SIMILAR like others with garlic odor: *salalis* (pubescent stem, on salal or Oregon grape, much longer spores) *copelandii* (pubescent stem, non-insititious stem, growing on leaves especially oak, much longer spores), *alliaceus* (somewhat pubescent stem, longer spores), *Marasmiellus filipes* (small cap, minutely pruinose stem, insititious on needles)

SOURCES Desjardin(1), Phillips*, Ammirati*, Lincoff(1)*, Courtecuisse*, Desjardin(1)*, Breitenbach(3)*

FAMILY Marasmiaceae of Order Agaricales