

## 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)** *Nolanea cetrata* (Fr.) Kummer forma *cetrata* Fuhr. Pilzk.: 95. 1971

**NOTES** Section Endochromonema; easily identified in field by yellow brown bicolorous cap with disc and striations darker, white gills, and silvery longitudinally striate stem; microscopically it has heterodiametric spores, no cheilocystidia, intracellular pigmentation and absent clamps; description derived from Largent; there are three forms which according to Largent "have identical micro- and macromorphological characteristics except for spore size and the number of spores on basidia"; forma *cetrata* has been found in WA, OR, AK, CA and is common; forma *mediospora* has been found in WA, CA and is common; forma *minimospora* has been found in WA, ID, AK, CA, WY, and is very common, also Europe

**CAP** 0.6-4.0cm, convex to broadly convex, margin downcurved; hygrophanous, bicolorous, with disc and striations dark brown and the rest medium brown, eventually fading to white or to orange white with disc fading first; bald from the beginning, shiny then dull, presumably dry, translucent-striate part or all of the way to the disc, margin more or less even, smooth and entire

**FLESH** 0.1-0.2cm near gill attachment

**GILLS** adnexed (adnexed to adnate for forma *minimospora*), close to subdistant, moderately broad to broad (0.3-0.8cm); white becoming pinkish, edge slightly lighter in color than face; edge smooth

**STEM** 1-9cm x 0.1-0.4cm, for forma *cetrata* this is 1-3.5cm x 0.1-0.4cm and for forma *minimospora* 2-9cm x 0.15-0.4cm; equal; for forma *cetrata* color described as hygrophanous, dark to medium brown with light brown base, when not exposed to light, to brownish orange when exposed; for forma *minimospora* color described as yellowish white to very pale yellow becoming brownish with handling; longitudinally striate due to scattered silky fibrils, presumably dry, basal mycelium scarce

**VEIL** absent

**ODOR** farinaceous

**TASTE** farinaceous

**HABITAT** on humus near or under conifers

**SPORE DEPOSIT** pinkish brown

**MICROSCOPIC** spores 8.2-12.8 x 5.1-9.9 microns, 5-6 sided, angular, smooth, inamyloid; pleurocystidia absent, cheilocystidia absent; forma *cetrata* 8.2-12.8 x 5.1-9.9 microns, averaging greater than 9.7microns, almost exclusively 1-2-spored basidia with rare to no 4-spored basidia, basidia 31.2-41.3 x 6.8-9.7 microns, easily separated; forma *mediospora* 7.7-11.4 x 5.0-8.2 microns, averaging between 9.3 and 9.7 microns long, with an equal number of 1-2-spored basidia as it has 4-spored basidia; forma *minimospora* (6.3)7.0-11.3 x (4.1)4.9-7.7(9.3) microns, averaging less than 9.1 microns long, has mostly 4-spored basidia with rare 1-2 spored basidia, basidia 26.1-45.1 x 6.6-12.2 microns; pigmentation (forma *cetrata*) "vacuolar and in form of globules or plaque-like areas in hyphae of pileipellis; incrustations absent"; clamps absent in all tissues, at least for forma *cetrata* and forma *minimospora*

**NAME ORIGIN** 'cetrata' means 'shield-bearing'; 'mediospora' probably means medium spores; 'minimospora' means 'smallest spores'

**SIMILAR** like *farinogusta* which has 2-spored basidia, smaller cap (1.0-1.2cm), bald stem, and spores with average length less than 9.0 microns; like *proxima* which has dark brown to gray brown cap and isodiametric spores

**SOURCES** Largent\*, PNW key derived from Largent, Courtecuisse(as *Entoloma*)\*, Breitenbach(4)\*

**FAMILY** Entolomataceae of Order Agaricales