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Conocybe Notebook 1

L. R. Hesler

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KEY TO SECTIONS AND SUBSECTIONS OF CONOCYBE

1.	Cheilocystidie + fusoid-ventricose, (or at least
	not nine-pin shaped if truly capitule see next
1.	Cheilocystidis nine-pin-shaped
	2. Spores roughened (use oil immersion)
	Sec. Verrucispora (one species, -
	C. idehoensis known) -
	2. Spores smooth
3.	Stipe annulate with a membranous, annulus Sec. Pholiotella - 2.
3.	Veil present but stipe not with a membranous annulus.
	Sec. Neucorioides
3.	Veil absent or extremely rudimentary Sec. Filiformes - 8
	4. Veil present, sometimes leaving en annulus.
	Sec. Septentrionales
	4. Veil absent or extremely rudimentary Sec. Conocybe - 7/

Conceybe idahoensis (Sm-44717)

Pileus 10 - 15 mm. broad, conic with a straight margin when young, expanding to campanulate or plano-umbonate, the umbo at times obsolete, surface glabrous, moist, hygrophanous, tawny over all or disc tawny and margin paler, striate when moist; odor and taste not recorded.

Lamellae close, moderately broad ascending adnate, ochraceous tawny when mature, edges even.

Stipe ± 2 cm. long and 1 mm. thick, equal, fragile, naked, honey color above, rusty brown below.

Spores 4.5 - 5 x 3.5 μ, broadly inequilateral in side view, broadly ovate in face view, dark rusty brown in KOH and minutely warty-roughened over all, apex in the form of a protruding hyaline pore (shoutlike); basidia 14 - 16 x 6 - 7 μ; hyaline in KOH, 4-spored; pleurocystidia none; cheilocystidia abundant, 16 - 22 x 8 - 11 μ, basal part ± globose, neck short and capitellum 5 - 6 μ in diam., (ninepin-shaped), content hyaline to smoky ochraceous; cuticle of pileus made up mostly of pilocystidia similar (often larger) similar to the cheilocystidia with or without smoky ochraceous contents, clavate-pedicellate cells present to fill out the hymeniform layer; caulocystidia similar to cheilocystidia; clamp connections readily demonstrated on hyphae of the stipe.

Habit, habitat and distribution: Gregarious on wet soil in a brushy area, Payette Lakes, Idaho, July 7, 1954, E. Kennedy, collector, (Sm-14717).

Conocybe idahoensis, cont.

Observations: I mistook this in the fresh condition for Galerina triscopa, but the ninepin-shaped cheilocystidia, hymeniform pileus cuticle and the apical pore of the spores place it in Concoybe where it is the first with roughened spores known to me.

CONOCYBE

SECTION PHOLIOTELLA

											-,				(<u>Sm-33829)</u>
1.	Spore	s smaller			*				*	*	á	*		. 1	finicial Warting
	2.	Growing on	dung	* *	*	*	*	*	٠	*	*	*	. 3		C 6m-13856
															1 c_ 16220

Conocybe Sm-33829 (rugosa?)

Pileus (5) 10 - 25 mm. broad, obtuse becoming obtusely campanulate or finally plano-umbonate, margin recurved in some, surface glabrous and moist, "Mars brown" to "cinnamon brown", rugulose, hygrophanous and fading to clay color, drying pale to dark tawny, often striate on the margin before fading; flesh thin, concolorous with surface, odor and taste not distinctive.

Lamellae adnate becoming adnexed, at times seceding, crowded, narrow to moderately broad, yellowish pallid when young, * clay color to tawny at maturity, edges finely while crenulate.

Stipe 2 - 4 cm. long, (1.5) 2 - 3 (4) mm. thick, equal or nearly so, pale ochraceous over all when young but soon darkening from the base upward, "sepia" to "mummy brown" at base in age, glabrous to silky or minutely floccose beneath the annulus, pruinose above; annulus membranous, persistent, striate above, pallid to cinnamon buff, matted-fibrillose below.

Spores 9 - 11 × μ , 5 - 5 μ , narrowly ellipsoid with truncate apices from apical pore, smooth, rusty cinnamon in KOH; basidia 4-spored 20 - 24 × 7 - 8 μ , hyaline to pale yellow in KOH; pleurocystidia none; cheilocystidia scattered, 22 - 30 × 7 - 12 μ , fuscid-ventricose with subacute to obtuse apices, smooth, hyaline in KOH; gill

Conceybe Sm-33829 (rugosa?), cont.

trama of inflated somewhat interwoven hyphae, brownishcohraceous in KOH; pileus trama of floccose-interwoven
hyphae dingy rusty to yellow brown in KOH; cuticle a
palisade of clavate-pedicellate to inflated cells, no
pilocystidia present; clamp connections present.

Habit, habitat and distribution: On wet soil over a log, Burt Lake near mouth of Maple River, Sept. 16, 1949, Sm-33829, collected by D. E. Stuntz.

Observations: The long narrow spores, dark rusty brown color and rugulose pileus are distinctive. It may be too close to <u>C</u>. <u>togularis</u> to be maintained as a distinct species.

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finicola Walling
Conocype Gm-13856.
Personia 6:325. 1971

Pilous 1-2.5 cm. broad, obtusely conic, the margin straight, expending to broadly conic or with a flaring margin and disc obtusely umbonate, glabrous, moist, striatulate before fading, hygrophanous, "Russet" over all when moist, fading to "ochraceous tewny"; flash toin, fragile, concolorous with surface, oder and taste mild.

Lameliae close (20-23 reach the stipe), narrow to moderately broad (3-4 mm.), broadest near the stipe, adnate (slightly ascending), color dull tawny("ochraceous tawny"), edges even.

Stipe 3-h cm. long, 2-3 mm, thick, equal, hollow, apex near "cinnamon buff", bese yellowish becoming bister, surface densely fibrillose-prunose above, appressed fibrillose over the remainder with buff fibrils, annulus median, membranous, buff color, striste above, at times evanescent.

Spores 7-9(10) × 5-5,5 h, ellipsoid, smooth, bright tawny to bright rusty cinnamon in KOH, apex obscurely truncate from a smell apical germ pore; basidia 5-spored, 13-19 × 6-7 h, hysline in KOH; pleurobystidia none; cheilocystidia scattered, 24-32 × 7-10 h, fusoid-ventricose with narrow necks and acute apices, bysline in KOH, thin-walled; gill trams ± interwoven; pilous trams of floccose-interwoven byphase cinnamon color in KOH and darker as one progresses toward the hymeniform cuticle; cuticle an hymeniform layer of clavate to pear-shaped cells with ± thickened rusty cinnamon pedicils as revived in KOH; no clamp connections found on pileus, present on hyphase of stipe.

Conceybe Sm-13856. Cont.

manure pile) Lake Crescent, Wash, Ney 29, 1939, Sm-13856.

Observations: This is a characteristic Conocybe of the Pholiotella group easily distinguished by its habitat.

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Conceybe Sm-16537.

Pileus 10-15 mm. broad, obtuse to convex when young, expanding to plane or with a low obscure umbo in ago, viscid, margin faintly strictulate when moist, "russet" over all when young, nearly "ochraceous tawny" in age; flesh thin but rather firm, conclorous with cap surface, odor and taste not distinctive.

Lameliae crowded, narrow (± 2 mm) and slightly ventricose, free or rounded next to the stipe and atteched by a segment, soon seceding, white at first but soon "ochreceous tawny", edges even or very minutely crenulate.

Stipe 3-4 cm. long, 2-2.5 cm. thick et apex, slightly and evenly enlarged downward, hollow, white to pale buff downward, fibrillose prunose above the annulus, thinly fibrillose below; annulus, superior, membranous, stricte above and matted fibrillose underneath, often evenescent.

Spores 7-9 × 4-5 µ, elliptic to overte in face view, mostly obscurely inequilateral in side view, smooth, reddish cinnemon in KOH, apical pore evident under high dry but apex not truncate; basidia h-spored, 18-22 × 6-7 µ, hyaline in KOH; pleurocystidia none; cheilocystidia abundant, 24-32 × 5-8 µ, narrowly fusoid-ventricose with subacute to acute apices, hyaline in KOH, thin-walled, smooth; gill trama intervoven, pale ochraceous tawny to pallid in KOH; pileus trama floccose and intervoven beneath the hymeniform cuticle, pale to dark rusty cinnamon in KOH; cuticle an hymeniform layer of clavate cells with rusty cinnamon wells in the pedicels, some filements projecting as pilocystidia; clamp connections present.

Conocybe Sm-16537. Cont.

Habit, habitat and distribution: Scattered on the ground under Alnus and Subus, Baker Lake, Wash. Sept. 1, 1941. Sm-16537.

Observations: The subscute cheilocystidie, terrestrial habit, russet colors when young, narrow fills, and slightly darkening stipe are characteristic among the small spored species.

CONOCYBE

SECTION NAUCORIOIDES

1.	Spores 6.5-8.5 u long 5.	C. Sm-40537
1.,	Spores 8-11(12) 04	2
	2. Spores not appearing truncate under	
	high-dry magnification 6,	C. Sm-44925
	2. Spores distinctly truncate	3
3.	Caulocystidia present as filementose out-	
	growths	C. Sm-14173
3.	Caulocystidic nerrowly ventricose below,	
	necks elongated and apices * capitate 8.	C. Sm-34533

Conceybe Sm-40537.

Pileus 1-3.5 cm. broad, convex with a straight margin, expanding to plane or the margin uplifted, surface viscid. glabrous, stricte when moist, hygrophanous, honey yellow fading to pinkish buff, margin at first dentate from white particles of the submembraneus weil; flesh firm but brittle, honey color, odor and taste not distinctive.

broad, close, depressed-adnets to adnete, secoding, edges even.

Stipe 3-5 cm. long, 2-3 mm, thick at apex, equal or slightly enlarged down ward, tubular, cartileginous-firm, pallid at first and loosely coated with veil remnents, becoming dark brown to bister from base upward in age.

Spores 6.5-8.5 × 4.5-5 u, cllipsoid, smooth tawny in KOH, ochraceous tawny in Melser's sol., no apical pore visible; basidia 4-spored, 18-22 × 6-7 u, hyaline in KOH; pleurocystidia none; cheilocystidia 20-30 × 6-12 u, either clarate and 6-10 u in diameter fusoid ventricose and 8-12 u, the neck usually short and apex obtuses to rounded, hyaline in KOH; thin-welled; gill trams parallel to somewhat intervoven, pellid cinnamon in KOH; pileus trams of flocoose-intervoven hyphne pale cinnamon in KOH; outicle a palisade of clarate to vesiculose cells ± pallid buffy tan in color or nearly hyaline; clamp connections present.

Hebit, habitet and distribution: Scattered on mud, Lower habitet Creek, Mt. Rainier National Park, Oct. 4, 1952. Sm-40537.

Conceybe Sm-40537. Cont.

Observations: In Sm-40615 the cap was other yellow the stipe 6-8 cm. long and 3-6 mm, thick. The lack of a germ pore is the most interesting feature of this Conocybe. The yellow pileus, and larger sizes separates it from other veiled species in which an annulus fails to form.

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Conceybe 8m-44925

Pileus 15 - 25 mm. broad, obtuse to convex expanding to broadly convex or plane, surface glabrous, moist, hygrophanous, near ochraceous tawny moist, pinkish buff faded, odor and taste not recorded.

Lamellae broad, close, ochraceous tawny when mature, edges white-fimbriate (under a lens).

Stipe 2.5 - 3.5 cm. long, equal or slightly enlarged downward, fragile, pale honey color below, pallid above, silky-fibrillose over lower two-thirds (possibly a thin veil present), upper third pruinose-scabrous from the patches of cheilcoystidia.

Spores 8 - 10 × 5 - 6 μ, elliptic in side view, ovate to elliptic in face view, smooth, rusty cinnamon in KOH, no germ pore visible hence apex not truncate; basidia 4-spored, 20 - 24 × 6.5 - 7.5 μ, hyaline or nearly so in KOH; pleurocystidia none; chellocystidia 34 - 46 × 7 - 11 μ, subcylindric to fuscid-ventricose, smooth, thin-walled, hyaline, apices obtuse to subcapitate; gill trama interwoven, of inflated cells and lacking a distinct central strand; pileus trama of floccose hyphae, dark reddish cinnamon beneath the cuticle; cuticle a layer of cells 1 - 2 deep arranged in a staggered palisade, no pilocystidia found; caulocystidia in dense clusters, clavate to narrowly ventricose with broad obtuse apices, 36 - 50 × 9 - 12 × 7 - 10 μ. (the neck 7 - 10 μ in diam, and apex scarcely

Conceybe Sm-44925, cont.

broader), hyaline, thin-welled, occasionally with slight incrustations; clamp connections present.

Habit, habitat and distribution: Gregarious on wet soil and debris, under conifers and shrubs, Payette Lakes, Idaho, July 14, 1954, H. Bigelow (Sm-44925).

Observations: There is no sign of a germ pore in the apex of the spores but in smoothness and color in KOH they are typical of Conocybe. The stipe is more like that of Cortinarius acutus in silkiness and appearance. The spore color and hymeniform cuticle are the deciding characters which place the species in Conocybe where it stands out very distinctly.

Description of the state of the same product, the parents

Conceybe Sm-14173

Pileus 1 - 2 cm. broad, obtusely conic expanding to broadly sonic, the margin straight at first, and decorated with white submembranous patches of the thin veil, veil remnants soon evenescent, surface glabrous, hygrophanous, "ochraceous tawny" to "buckthorn brown" moist, translucent striats, fading to yellow ("light buff" or "warm buff"); flesh thin, fragile, odor and taste mild.

Lamellae close to crowded, (20 - 23 reach the stipe), broad (2.5 - 3 mm), bluntly adnate and soon seceding, whitish when young, ochraseous tawny in age.

Stipe 4 - 5 cm. long, 1.5 - 2.5 mm. thick, equal to a somewhat swollen base, hollow, fragile, undulating, whitish above and dingy tawny below and darkening even more in age, white-scurfy above, glabrous below the faint zone left by the broken veil.

Spores $6-11 \times 4-5.5 \,\mu$, narrowly subelliptic in side view, narrowly ovate to elliptic in face view, smooth, truncate from a small apical pore, yellowish in H₂O fresh rich ochraceous tawny to pale tawny in KOH; basidia 4-spored, $16-23 \times 7-9 \,\mu$, pallid ochraceous (sections of hymenium) in KOH; pleurocystidia none; cheilocystidia $30-46 \times 10-13 \,\mu$ and fusoid-ventricose or somewhat ninepin-shaped, and with enlarged to subcapitate apices; gill trama typical for genus; pileus trama rusty cinnamon

Conceybe Sm-14173, cont.

in KOH, of intervoven flocoose hyphae with incrusted pigment; cuticle a layer of globose and clavate cells somewhat
ctaggered in arrangement (2 2 - 3 cells deep at times as
in Psathyrella), the pedicels often colored, no pilocystidia
seen; caulocystidia seen only as filamentose outgrowths
which above become apprecised to the stipe); clamp
connections present.

Habit, habitat and distribution: Scattered on humus, Elahat River, Olympic Mts., Wash., June 8, 1939, Sm-14173.

Observations: This is a member of the <u>C</u>. <u>togularis</u> group with medium-sized spores and a submembranous veil which does not form a true annulus. The material of the veil is more loosely interwoven than in the annulate group.

Pileus 15 - 20 mm. broad, obtuse to convex becoming broadly convex to plane or with the margin uplifted in age and a low umbo, surface glabrous, moist, hygrophanous, "buckthorn brown" fading to "varm buff" (yellow), margin at first with a cobwebby veil which soon ruptures and all traces soon vanishing; odor none, taste mild.

Lamella@ close, 2 tiers of lamellulae, narrow, adnate, often dichotomously forked, near buckthorn brown, edges even but fimbriate.

Stipe 2.5 - 5.2 cm. long, 1.5 - 3 mm. thick, equal, pallid above, nearly as dark as the cap below, with a faint superior fibrillose zone from the broken veil, pruinose above, smooth or faintly fibrillose below.

Spores 10 - 12.5 x 4.5 - 5.5 μ, narrowly ovate in face view, narrowly subelliptic in side view, smooth, apex truncate from apical germ pore; basidia 4-spored, 22 - 28 × 7 - 9 μ, hyaline in KOH; pleurocystidia none; cheilocystidia abundant, fuscid-ventricose with short necks and obtuse to subcapitate apices 26 - 34 × 9 - 12 μ, hyaline, thin-walled, smooth; gill trama typical for genus; pileus trama of floccose- interwoven hyphae pale ochraceous tawny near subhymenium and pallid near cuticle; cuticle a palisade of clavate-pedicellate cells with ochraceous pedicels, no pilocystidia seen; caulocystidia narrowly ventricose with elongated necks and capitate to subcapitate

Conceybe Sm-34533, cont.

apices 30 = $45 \times 6 = 10 \times 4 = 6 \mu$; clamp connections present.

Habit, habitat and distribution: On soil, Pole Mt., Albany County, Wyoming, July 7, 1950, Sm-34533.

Observations: This is closest to 14173 but differs in its caulocystidia and cortinate veil and possibly by the slightly larger spores. The caulocystidia, however, seem to be the most distinctive character.

CONOCYBE

SECTION FILIFORMES

1.	Spores 9 µ or more long (but see 2-spored C.
	Dygmelaffinis also)
2.	Spores typically under 9 u
	2. Spores 10-14 x 7-9(11) u 9. C. plumbeitincta
	2. Spores 9-11 × 5-5.5 11 10. C. flexiples Wathing
3.	Fileus 1-3(7) cm. broad; stipe 3-k mm. thick,
	· · · · · · · · · · · 11. C. pygmooaffinis
3.	Pilous typically 5-15 mm.; stipe 1-2 mm 4
	4. Cheilocystidie obtuse to subcapitate
	(see 5m-9609 elso)
	4. Cheilocystidia scute to subscute 6
5.	Stipe soon greenish gray over basal port . 12. C. Sm-29
5.	Stipe not as above typically isobelline . 13. C. glabra
	6. Stipe white and unchanging 14. C. Sm-44151
	6. Stipe darkening especially at base in age 7
7.	Cheilocystidia subacute
7.	Chailanustidia varvina to obtuse 16. C. Cilinas

Conceybe prumbeitincts (Atk.)

Galerume plumbeitinete Atkinson, Proc. Amer. Phil. Scc. 57: 572. 1918.

Pileus 1-1,5 cm. brosd, convex becoming campanulate, lubricous when young, striatulate, lead-colored.

Lamellae broadly adnete, subdistant, ventricose ochracocus tawny.

Stipe 3-5 cm. long, 2-3 km, thick, white becoming lead-color, prunose above, substricte below, hollow.

Spores 10-14 × 7-9(11) µ broadly elliptic in side view, oval in face view, obscurely truncate from a small apical pore, smooth; basidis 4-spored; pleurocystidia present at least near edge, 30-44 × 8-12 µ, fuscid-ventricose hymline in KOB, apices obtuse; cheilocystidia similar to the pleurocystidia but smaller, 25-35 × 6-12 µ, hymline, thin-walled; gill trame with a somewhat interwoven central strand, subhymenium cellular; pileus trama with a cuticle of cell 30-44 × 15-25 µ, thin-walled or more-less thickened (but hymline) in the pedicel, pilocystidia 40-6- × 8-12 µ, also present, neck in some with pallid thickened walls in narrow part, some pilocysts ventricose at base and filamentose-flexuous above, and some 50-159 × 8-12 µ and thin-walled.

Habit, habitat and distribution: On dung, Cascade Glen, Ann Arbor, Mich, June 9, 1906, C.F. Kauffman,

Observations: The Assoid-ventricose cystidia and lead--colored pilei along with the large spores are distinctive. Conocyber Mathing
Personia 6: 336. 1971

Pileus 5 - 15 mm. broad, obtusely conic when young, expending to campanulate or plano-umbonate, surface glabrous, moist and hygrophanous, watery ochraceous tawny when fresh and then also translucent-striate, fading to pinkish buff; flesh very delicate, odor and taste not distinctive.

Lemellae close, moderately broad, adnate, seceding, pale buff becoming cohraceous tawny to near tawny, edges minutely fimbriate in age.

Stipe 5 = 7 cm, long, ± 1 - 1.5 mm, thick, equal, often flexuous, very fragile, pale buff above, pale ochraceous tawny below, with a thick cottony-membranous superior annulus, appressed fibrillose to glabrous below the annulus, pruinose to maked above; annulus pallid to pale buff, striate on upper surface, with a thick cottony margin (for such a slender carpophore).

Spores 9 - 11 x 5 - 5.5 μ , narrowly ovate to elliptic in face view, subelliptic to slightly ovate in side view, smooth, rusty cinnamon in KOH, truncate from an apical pore; basidia 1-spored, 20 - 24 x 6.5 - 5 μ , hyaline or nearly so in KOH; pleurocystidia none; cheilocystidia variable, 26 - 35 x 6 - 12 μ , generally ventricose near base and narrowed to an obtuse to capitate apex (not ninepin-shaped, however) some ventricose at base and with long equal necks 4 μ in diam, ending in an obtuse apex, hyaline, thin-walled; pileus trama

Conceybe Sm-41179, cont.

flocoose-filamentose and pale tawny in KOH; outicle a cellular layer of clavate-pedicellate and inflated cells to 2 deep and not highly colored (pallid) in KOH, no pilocystidia present; clamp connections present.

Habit, habitat and distribution: On moss, decaying wood and detritus of herbaceous plants and shrubs on old avalanche, Green Lake, Mt. Rainier National Park, Wash., Oct. 19, 1952, Sm.41179.

observations: This species has slightly larger spores than the other annulate Conocybes which inhabit such situations. This, in addition to the very slender stature distinguish it. It is well-named. It should be carefully compared with <u>C. mycenoides</u>; actually the two may be synonymous.

Conocybe pygmeoaffinis (Sm-33-1127).

Pileus 1-3(7) cm. broad, obtusely conic to convex with a connivent margin, expanding to broadly conic to convex or nearly plane, surface moist at first densely pubescent (under a lens) from pilocystidir, soon naked, margin long remaining stricts, even to rugose-reticulate, watery ochfaceous to near ochraceous tawny moist, fading to pale pinkish buff (whitish), scarcely atomate when faded; flesh pale ochraceous, odor slightly factid, taste not recorded.

Lamellee close, narrow, ascending adnete to nearly free, white becoming othraceous tewny, edges even but faintly fimbriate.

Stipe 3-5 cm. long, 3-h mm. thick, tubular to hollow, tissue lining the cavity ochraceous, cortex white, surface densely white pubescent from caulocystidia and white, base white mysticid and somewhat bulbous.

Spores $7-9 \times 4(9-10 \times 5-5.5 \, \mu)$ μ_{*} obscurely inequilateral in side view, evate to elliptic in face view, smooth, rich tewnycinnamon in KOH, apex obscurely truncate from a small apical pore; basidis 2- and k-spored, $18-20 \times 5-6 \, \mu_{*}$ hysline in KOH; pleurocystidia none; cheilocystidia $40-60 \, \mu$ $7-9 \, \mu_{*}$ fusoidwentricose with acute apices, hysline in KOH, smooth, thin-walld or in some with a slight thickening in the narrowed apical part; gill trama \pm interwoven and dingy otheraceous in KOH; pileus trama of floccose-interwoven hyphae darker tawny (in KOH) near

Conceybe pygmeoaffinis (Sm-33-1127). Cont.

hymeniform layer of staggered clavete hymbine cells (in KOK)
with numerous pilocystidia interspersed, pilocystidia fusoidventricose with long narrow macks and subscute spices smooth but
wall or neck often undulating; caulcoystidia similar to pilocystidia or more elongated; class connections absent.

Habit, habitet and distribution: Gregarious on soil,
Allen's woods near Brighton, Nich. Oct. 15, 1933. Sm-33-1127.

Observations: I could find no clemp connections but the inflated hyphae generally make their demonstration difficult.

The abundant pilocystidic, fuscid cheilocystidia small spores and general firm consistency are distinctive.

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Conocybe Sm-29,

Pileus 3-10 mm. broad, obtusely conic to expanded-umbonate, ochreceous tewny to "Sayal brown" or cinnamon brown, the disc usually more tawny, striate to disc, hygrophanous, fading to pinkish buff or a dingy tan; flesh exceedingly watery-fragile, odor and taste not distinctive.

ismeliae subdistant, narrow to mederately broad, ednate, soon seceding, ochraceous buff becoming cinnamon, edges even and concolorous with faces, becoming minutely crenulate.

Stipe 1-3 cm. long, very week and fregile, watery white to greenish gray, especially below, faintly fibrillose, glabrescent, base often enlarged slightly at point of attachment.

Spores (6.5)7-9 × 4-4.5 µ, ellipsoid, smooth, with a small apical pore but apex only obscurely truncate, rusty cinnamon in KOH; basidia 4-spored, 18-20 × 8-9 µ, hyaline in KOH; pleurocystidia none; cheilocystidia (20)26-32 × (7)9-14 µ, fusoid=ventricose with obtuse to subcapitate apices, with a tendency toward the nine-pin-shaped type, thin walled, hyaline in KOH, smooth; gill trame typical for genus; pileus trams flocosesinterwoven, rusty brown from incrusting pigment beneath the cuticle; cuticle a palisade of clavate to pyriform or vesicutose hyaline cells, some of which give off spical filaments up to 60 × 44µ as pilocystidia; ceulocystidia about like the cheilocystidia but frequently much more elongated and contorted, apices obtuse to subcapitate; clamp connections present.

Conocybe Sm-29. Cont.

Rabit, habitet end distribution: Scattered on humus, end moss, George Reserve, Pinckny, Nich. June 19, 1934. Sm-29.

and the cheilocystidia which are intermediate between the ninepin-shaped and fuscid types along with the dark brown pileus
are distinctive. The pilocystidia are cells in the palisade
layer which produce an apical filament--in Sm-42702. Check
carefully on fresh meterial !

Conocybe glabra (Murrill)

Pileus up to 8 mm. bread, conic to campanulate, not expanding further, surface moist, not striate, entirely smooth and
glabrous, uniformly dull-isabeline with a fulvous tint.

Lameliae adnate or adnexed, attenuate behind, very regular, not crowded, somewhat ventricose, dull-isabelline to fulvous, whitish on the edges.

Stipe 2.5 cm. long, 0.5 mm. thick, slonder, equal, smooth, f glabrous, concolorous paler and pruinose at apex.

Spores 7-9 x 4- 5p, ferriginous-tawny, smooth, truncate, ovoid to subclliptic, thick welled; basidie 4-spored, 20-25 x 7-9 p; pleurocystidia none; cheilocystidia 36-45 x 9-12 p, fuscid-ventricose with flexuous necks and obtuse to subcapitate spices, hysline, thin-walled, smooth; gill trame with a filementose central strand flanked by a cellular area on each side; pileus trama with an hymeniform caticle but all cells collapsed and reviving poorly; clamp connections present.

Habit, habitet and distribution: Solitary on soil on the side of a bank in the open, Lake Flacid, New York, July 17-29, 1912. W.A. Merrill 99.

Observations: Murrill described the spores as 12-14 x 6-7 p sc either he got his data mixed or the specimen I studied which was labelled the type somehow got juggled with that of another species. At all events I am using my own data, as it is well known that Murrill was not careful about microscopic characters. I doubt if this species had pilocystidia.

Conceybe Sm-44151

Pileus 8 - 20 mm, broad, obtuse with a straight margin, expanding to broadly conic, "tawny" when mature, fading to whitish, slightly striate at first, hygrophanous, glabrous and naked; flesh very thin and fragile, taste and odor not distinctive.

Lamellae close, narrow to moderately broad, ascending adnate, secoding, white at first, in age rich tawny.

Stipe 2 - 4 cm. long, 1 - 1.5 mm. thick at apex, slightly enlarged downward, hollow, fragile, white over all and unchanging, glabrous but under a lens with a very fine pruinosity, not staining when bruised.

Spores $7-9 \times 4.5-5 \mu$, obscurely inequilateral in side view, ovate in face view, smooth, rusty cinnamon in KOH, with a small apical pore but apex not truncate, (some spores up to 11μ long and some with a lateral protuberance, some with a snout-like apex, but all of these types appearing abnormal); basidia 4-spored, $18-23 \times 7-8 \mu$, hyaline in KOH; pleurocystidia none; cheilocystidia abundant, $34-48 \times 6-9 \mu$ at base, neck $2-3 \mu$ and ending in an acute apex, hyaline in KOH, thin-walled or wall in narrowed neck slightly thickened, smooth; gill trama typical for genus; pileus trama of inflated hyphal cells it hyaline in KOH; cuticle a palisade of clavate-pedicellate cells, hyaline in KOH, numerous pilocystidia $50-75 \times 8-11 \mu$ projecting, fusoid-ventricose with a narrow (if 3μ) neck and acute apex, wall

Conceybe Sm-44151, cont.

often somewhat thickened in the neck, hyaline or with yellowish content; caulocystidia more irregular than cheilocystidia but essentially similar, some merely filamentous and obtuse at apex, some contorted; clamp connections absent.

Habit, habitat and distribution: Gregarious on moist earth, Payette Lakes, Idaho, June 25, 1954, Sm-44151.

Observations: The white, unchanging stipe, Alnicolalike cheilocystidia, and small spores are distinctive.

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Conceybe Sm-42777. C. filipes.

Pileus 6 - 12 mm. broad, oval when young, expending to obtusely conic, surface glabrous, moist, hygrophanous, tawny to ochraceous tawny and with conspicuous translucent striations before fading to cinnamon buff; flesh very thin and soft, odor and taste none.

Lamellae close to subdistant, narrow to moderately broad, ascending-adnate cohraceous tawny mature, edges even.

Stipe 3 - 4 cm. long, ± 1 mm. thick, very fragile, pale ochraceous tawny (watery) downward, paler above, surface pubescent from caulocystidia; no veil present.

Spores 6.5 - 8 x 4 - 4.5 μ, obscurely inequilateral in side view, elliptic to narrowly ovate in face view, smooth, obscurely truncate from a small apical pore, rusty cinnamon in KOH; basidia 4-spored, 17 - 20 x 6.5 - 8 μ, hyaline in KOH; pleurocystidia none; cheilocystidia scattered, 50 - 70 x 9 - 14 μ, fuscid-ventricose with long necks and subacute apices, hyaline, smooth, thin-walled; gilltrama typical for genus; pileus trama floccose-interwoven, rusty brown in KOH; cuticle a palisade of clavate-pedicellate cells or many sessile and vesiculose, numerous pilocystidia so - 120 x 10 - 20 μ present and projecting, neck 6 - 8 μ in diam, and apices obtuse; caulocystidia similar to pilocystidia; clamp connections present but difficult to demonstrate.

Conceybe Sm-42777, cont.

Habit, habitat and distribution: Scattered on soil in a woods road, Colonial Point, Burt Lake, Michigan, Sept. 15, 1953, Sm-42777.

Observations: This fungus had the stature of <u>C. cyanopes</u> but the stipe was brownish below. I think it is the same as 9609.

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Conceybe filipes (Atk.) Sm-9609

Pileus 6 - 12 mm. broad, obtusely conic with a straight margin, expanding to broadly conic, surface moist and delicately pruinose from projecting pilocystidia, finely translucent striate at maturity, opaque when young, hygrophanous, "russet" becoming "tawny" or "ochraceous tawny", fading to "cinnamon buff"; flesh concolorous with surface or slightly paler, fragile, odor and taste mild.

Lamellae close (20 - 25 reach the stipe), 3 tiers of lamellulae, <u>broad</u>, adnate, <u>white</u> at first, soon pale tawny, edges even and slightly fimbriate.

Stipe 2 - 3 cm, long, 1.5 mm, thick, equal, tubular, quite firm, whitish becoming pale tan or toward the base, somewhat fuscescent in age, densely pubescent from projecting caulocystidia.

Spores $7-9 \times 4-4.5 \,\mu$, obscurely inequilateral in side view, ovate in face view, smooth, with a small apical pore but not appearing truncate, rusty cinnamon in KOH, tawny in H₂O fresh; basidia 4-spored, $20-25 \times 6-9 \,\mu$, hyaline to ochraceous in KOH; pleurocystidia none seen; chellocystidia prominent and fuscid-ventricose, $40-60 \times 8-15 \,\mu$, hyaline, apices obtuse, thin-walled or in the neck slightly thickened; gill trama interwoven, subhymenium not distinctive, fulvous revived in KOH; pileus trama ochraceous-fulvous, of floccose interwoven hyphae; cuticle a palisade

Conceybe filipes (Atk.), cont.

of clavate to inflated cells with numerous large pilocystidia 100 - 120 × 10 - 20 μ interspersed, pilocystidia essentially fuscid-ventricose, thin-walled, and hyaline; caulocystidia similar to pilocystidia; clamp connections present.

Habit, habitat and distribution: Gregarious on an old road, Milford, Michigan, July 13, 1938, Sm-9609.

Observations: The small spores and prominent cystidia on cap, stipe and gill edges are outstanding.

CONOCYBE

SECTION SEPTENTRIONALES

1.	Annulus typically absent; weil remnants
	adhering to cap mergin
1.	Annulus typically present
	2. Gills pallid at first Chailocystidia
	fusoid to cylindric-capitate 18. C. 5m-10260
	2. Gills yellow at first; cheilocystidia
	nine-pin-shaped
3.	Pileus "suden brown"
3.	Pileus "chestnut brown" 20. C. septentrionalis (intermedia)

Conceybe Sm-13259.

Pileus 5-10 mm. broad, obtusely conic becoming convex or plane, glabrous except for scattered fibrillose veil remnants along the margin, "ergus brown" when fresh, but soon "conraceous towny" from the margin inward, hygrophanous, fading to "cinnamon buff" or with more yellow, not atriate at any stage; flesh thickish, rather firm, concolorous with surface, odor and taste mild.

Lameliae close (about 20 reach the stipe) broad (+1.5 mm.), ovel in outline, depressed-adnete, ochraceous tawny from the beginning, edges even.

Stipe 2.5-3 cm. long, 1.5 mm, thick, equal, tubular, not especially fragile, near "Prouts brown" downward and "cley color" toward apex at first, coarsely fibrillose punctate or fibrillose-squamulose over all, in age the lower part merely fibrillose, epex pruinose, weil fibrillose and sordid buff.

Spores 8-9(10) × 4.5-5 u, obscurely been-shaped in side view. ovate to elliptic in face view, smooth, rusty cinnamon in KOH, apical pore minute and apex not truncate; besidie 4-spored, 28-34 × 7-8 u, pale cinnamon ochreceous in KOH (especially sections of the hymenum); pleurocystidia none; cheilocystidia 25-32 × 7-11 × 3-5 u, nine-pin-shaped with elongated narrow necks, hyaline in KOH; gill trama reddish cinnamon in KOH, interwoven; pileus trama dark reddish cinnamon in KOH, floccose and interwoven; cuticle of clavate cells with cinnamon pedicels, no pilocystidia seen; caulocystidia scattered, clavate to elongate and then with a capitellum; clamp connections present.

Conceybe Sm-13259. Cent.

Habit, habitat and distribution: Scattered on an old camp site, Clearwater River, Clympic Ets., Wash. May 9, 1939. Sm-13259.

Observations: The cap was "Carob brown" and gill "clay color" in Sm-13463. This species is close to one from Lower Takoma.

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Conocybe Sm-28916.

Pileus 1-2 cm. broad, convex with a straight margin, becoming plane or with a low obtuse umbo, surface <u>viscid</u>, glabrous,
margin at first bungawith membranous patches of the veil, striate
when moist, color on disc near "argus brown" or with a "mummy
brown" cast, margin duller then "amber brown", buttons "puburn"
at first; flesh very soft and watery, concolorous with surface,
ouer and taste not distinctive.

Lamellae near "tawny olive" young, becoming pale to dark cinnemon brown, depressed adnate, ventricose and moderately broad, close, edges minutely serrete.

Stipe 3-5 cm. long, 2-3.5 mm. thick, equal, tubular, cortex watery brown, surface fibrillose to scabrous up to where the veil breaks or to apex, pale brownish above, near bister from the base up in age, at times somewhat fibrillose-stricte.

Spores 7-9 × 4.5-5 µ, ovate in face view, mostly obscurely inequileteral in side view, bright tewny in KOM, smooth, spical pore scarcely discernible under high dry; besidia 4-spored; pleurocystidia none; cheilocystidia 24-28 × 5-9 µ, the neck narrow and ending in a capillilum 3-5 µ in diam., ventricose portion; often irregular in ouTline; gill trama interwoven; pileus trama interwoven and homogeneous beneath the hymeniform cuticle of clavate cells with rusty brown thick-walled padicils; clamp connections present.

Hebit, hebitat and distribution: Gregarious on rich humus, alder plot. S. West Entrance, Mt. Fainier National Park, Wash. July 10, 1948. Sm-28916.

Conocybe Sm-28916.

Observations: The dark brown pileus, fragile veil which does not form on annulus, non-truncate spores, capitate cheilo-cystidia and habitat on humus are distinctive.

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Conocybe. Sm-13260. Willing Personia 6:338. 1971

Pileus 1.5-3.5 cm. trosd, convex, becoming plane viscid when young, glabrous, "argus brown" over all at first, becoming "ochraceous tawny" on the margin and strictulate, fading to "light buff" more or less, or dingy tawny; flesh thin, concolorous with surface moderately brittle, odor & taste mild.

Lemellee crowded (± 30 reach stipe), narrow (3-4 mm. broad), depressed adnate, soon seceding, 2-3 tiers of lemellules, "tilleul buff" becoming "ochraceous tewny"; edges thin even or slightly crenulate.

enlarged, tubular, whitish above, becoming derker (near "Dresden brown" below, at first densely fibrillose and with a pale buff fibrillose coating, fibrillose-squemulose above annulus also, fibrils evavescent and them the darker color visible; annulus thick, membranous, superior, stricts above.

Spores 7-8.8 × 4-4.5µ, subellyptic in side view, narrowly ovate in face, smooth, apical pore distinct but apex not clearly truncate, cinnesson in KOH; basidia 4-spored, 18-20 × 7-8µ, hyaline in KOH; pleurocystidia none; cheilocystidia abundant, 34-45 × 7-9µ, narrowly ventricose (7-9µ) with capitate to subcapitate apices 507µ in diam, at times nearly cylindric-capitate, smooth, hyaline in KOH; gill trame somewhat interwoven, of inflated cells (10-40µ diam.) pale cinnesson in KOH; pileus trama deep rusty cinnesson (in KOH) beneath the hymeniform cuticle of pedicullabe-clavate cells having pallid inflated portions and

Conocybe Sm-13260. Cont.

westly pale cinnemon pedicles; clemp connections present.

Mabit, habitet and distribution: Gregarious on old rotten Alnus or Acur logs, Glear Water River, Wash. May 9, 1939, Sm-13260.

Observations:

- frunch-Conocybe Sm-41704.

Pileus 1-2.8 cm. broad, convex, expanding to nearly plane or with a slight obtuse umbo, surface glabrous, moist, hygrophan ous, "Sudan brown" to near "cinnamon brown", feding to ochraceous buff", surface even; flesh thin, odor and taste not distinctive.

Lemellae crowded, ± herizontal, narrow to moderately broad, adnate-seceding, with a strong ochraceous tone (near "raw sienna"), edges even or nearly so.

Stipe 2.5=3 cm. long, 1.5-2.5 mm. thick, equal, brittle, pale yellow but base soon bister where handled, with a median or lower membranous annulus from the yellowish veil, fibrillose-scurfy above the ring.

Spores 6.5-7 × 4.5 µ, elliptic in side view, slightly been-shaped in face view, rusty cinnamon in KOH, apical pore minute, apex not truncate; besidia 4-spored 15-18 × 6-7 µ, sections of hymenium pale cinnamon in KOH and many basidioles with a pale dull cinnamon content; pleurocystidia none seen; cheilocystidia nine-pin-shaped, 20-28 × 9-11 × 4-5 µ, hyaline in KOH, thin-walled, smooth; gill trame interwoven and pale cinnamon in KOH; pileus trame pinnamonain KOH; cuticle a palisade of clavate cells with cinnamon-fulvous pedicels (in KOH), pilocystidia 25-33 × 4 × 5-6 µ also present (cylindric-capitate or slightly enlarged toward base); clarp connections present.

Habit, habitet and distribution: Scattered on hardwood logs, Takquamenon Falls State Park, Mich. July 27, 1953, Sm-41704.

Conocybe Sm-11704, Cont.

Observations: Compare C. septentrionalis for pilocystidia and raw sienna gills. It apparently is the closest species.

This (41704) may be only a form of it.

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Conceybe septentrionalis (smith) Kuhuer, Prisoonia 6:315

Pholiota septentrionalis Smith, Mycologia

Pholiota intermedia Smith, Ann. Myc. 32: 479. 1934.

(Non Pholiota intermedia Singer 1928)

Pileus 1 - 2 cm. broad, obtusely conic expanding to nearly plane, glabrous, viscid, hygrophanous, "chestnut brown" or darker in button stages, "ochraceous tawny" at maturity and fading to dull buff, striate when moist, discoften somewhat rugose at maturity.

Lemellae close, narrow, adnate, cohraceous, edges white fimbriate.

first largely from the adhering colored veil remnants,
loosely fibrillose above and below the annulus, darkening from
base up in age and somewhat glabrescent; annulus membraneus,
median to inferior, striate above, annular material at times
leaving leaving away from stipe and forming patches along the margin
of the cap.

Spores 6 - 7.5 (8) x 4 - 4.5 p, cinnamon brown in mass, rusty cinnamon in KOH, obscuroly bean-shaped in side view, ovate to subelliptic in face view, smooth, apical pore present but apex not truncate; basidia 4-spored, 14 - 18 x 7 - 8 p, hyaline in KOH or in sections of hymenium pallid cinnamon; pleurocystidia none but some cinnamon basidium-like bodies present in hymenium (as revived in KOH); cheilocystidia (18 - 26 (37) x 7 - 10 x 4 - 6 p, ventricose with a narrow neck and a head 4 - 6 p in diam. - hence nine pin-shaped, hyaline and smooth in KOH; gill trama of inflated interwoven

Pholiota septintrionalis Smith, cont.

hyphae pale cinnamon in KOH; pileus trama floccose, the hyphal cells inflated and pale cinnamon in KOH, much darker just beneath the cuticle; cuticle an hymeniform layer of clavate pedicellate cells, the walls of the pedicels somewhat thickened and deep rusty brown in KOH; clamp connections presente

Habit, habitet and distribution: Scattered on rotting wood and in rich humus near rotten logs, not uncommon in the Great Lakes Region, Summer and Fall.

Observations: Singer's Pholiotella may be valid after all = these spores are not "Conocybe spores".

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CONOCYBE

SECTION CONOCYBE

1.	Spores 11-13 % or longer 2
1.	Spores 8-11 µ
1.	Spores 6-9 H
	2. Stipe 3-5 mm. thick at apex and enlarged downward to a marginate bulb, whitish fib-
	rils from a thin well evident around rim
	of bulb
	2. Not as above
3.	Pileus fuligineus young end lubricous to viscid
	22. C. siligines Fr. (Sm-14)
3.	Not as above pilous ochraceous to cinnemon
	brown
	4. Gills typically crisped and strongly
	intervenose
	4. Not as above
5.	Spores 5-7 brosd 6
5.0	rSpores 7-10 broad
	6. Caulocystidia lacking a capitellum
	24. <u>C</u> . <u>Sm-34620</u>
	6. At least some of the caulocystidia with
	a capitallum

77 .	Growing on clay soil; pileus more or less
	avellaneous faded 25. C. Sm-23930
7.	On dung or garden soil 8
	6. Stipe pruinose over all under a lens
	•••• 26. <u>C</u> . Sm-12098
	8. Stipe fibrillose-striate over lower half
	much as in Mycena polygramma 27. C. Sm-6356
9.	On dung
9.	Not as above
	10. Stipe soon naked; pilens 15-25 mm, broad,
	echraceous tawny to clay color 28. C. Sm-13462
5/AC.	10. Stipe persistently pubescent and finally
	longitudinally stricte; pileus russet to
	rich ochraceous tewny 29. C. Sm-39233
11.	On soil and debris of a stream out-wash;
	pileus russet when young 30. C. Sm-454-2
11.	On lawns 31. C. necentipus and C. lactes
	12. Pileus yellow, fading to white; stipe
	white
	12. Pileus not se above
	Pileus "olive brown" to "mummy brown" fading
	to avellaneous
13.	Not as above
	14. On or near dung
	14. On humus and debris in the forest 16
15.	Taste reminding one of a green gourd
	34. C. (Naucoria CA of Burke)

Exercise (7.10
		storeorana Waln
15.	Taste none	2. <u>Sm-13169</u>
Signal Control	16. Growing on moss in the forest; pileus	
	grayish when faded 36.	3m-46588
	16. Growing on needle beds or on soil and cap	
	not grayish when faded	
17.	Cheilocystidie 8-11 p in dism 37.	S. Sm-14109
17.	Cheilocystidia 10-18 p in diem 38.). Sm=19)))e
A . T	10. Stipe 4-10 mm. thick, base with a margin-	
	ato bulb	C. Antiqueuc
	16. Not as above	* * * * 19
19.	Growing on freshly manured soil, garden soil,	
	etc	20
19.	Not on dung or cultivated soil	* * * * 21
	20. Arising from a sclerotium; pileus margin	
	inrolled at first	
	Acrocybe arvolis var.	inicarizona
	20. Not es above 40.	C. Suc.4
21.	Rabitat on moss and debris of the forest floor	* * * * 22
21.	Habitat typically lightcolous	23
	22. Fileus dull cebraceous tawny moist; stipe	are Ma
	evenly pale ochraceous tawny over all;	
	spores 7-9 x 5-5,5 p 41. (€ Sm-46637
	22. Pileus bister to mummy brown fresh; stipe	904.974
	whitish at first; spores 6-7 x 3.5 p	
	42. C. pilosel	la Sm-4180
23,	Pilocystidia capitate 45.	Sm=31236
Filo	cystidie not capitate either filamentose or	
	fusoid-ventricose	24

 Conceybe Sm-21606

Pileus 2 - 3.5 cm. broad, obtusely conic when young margin straight to connivent, expanding to broadly conic, conic campanulate or planc-umbonate, hygrophanous, pale ochraceous tawny fading to "ochraceous buff" (yellow) very finely pubescent at first from projecting pileoystidia, becoming lubricous to subviscid, margin even or slightly sulcate; flesh thickish and firm; pallid, no odor or taste.

Lamellae close, ascending-adnate to nearly free, moderately broad or remaining narrow, pallid buff becoming pale tawny, edges even.

Stipe 5 - 7 cm. long, 3 - 5 mm. thick at apex, evenly enlarged downward to a bulbous (often marginate-bulbous) base, rim of bulb with whitish fibrils indicating a slight veil, typically twisted striate over upper two-thirds, very pallid buff above, brownish below, whitish at the base, hollow in age.

Spores $11 - 14 \times 6 - 7.5 \,\mu$, in side view with a relative straight ventral line and dorsal line convex, ovate to obscurely angular-ovate in face view, truncate from a medium-sized apical pore, smooth bright rusty cinnamon in KOH; basidia 4-spored, $25 - 35 \times 9 - 11 \,\mu$, pale dingy ochraceous in KOH; pleurocystidia none seen; cheilocystidia scattered, $15 - 24 \times 7 - 10 \times 4 - 5 \,\mu$, ninepin-shaped, hyaline, thin-walled, smooth; gill trama typical for genus; pileus trama floccose and interwoven, tawny to ochraceous

Conceybe Sm-21606, cont.

in KOH, or in age nearly pallid; cuticle a palisade of clavate to vesiculose hyaline cells with fuscid-ventricose to contorted pilocystidia with obtuse to subscute apices interspersed, pilocystidia $25 - 36 \times 7 - 11 \mu$; caulocystidia clavate, $18 - 24 \times 7 - 11 \mu$, hyaline, often in clusters; clamp connections present but rare.

Habit, habitat and distribution: Closely gregarious on a manure pile, Douglas Lake, Michigan (Camp Manitou), July 2, 1946, Sm-21606.

Observations: This is a fairly fleshy species reminding one of <u>Conocybe intrusus</u> (Fk.) Singer, but with much larger spores and more slender stipe.

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Concoybe siliginea Fr. (Sm-14)

Pileus 8 - 25 mm. broad, obtusely conic with a straight margin, expanding to obtusely campanulate, at times nearly plane and splitting radially, glabrous, lubricous to viscid but soon dry, subhygrophanous, "light grayish clive" to "smoke gray" at first, sometimes darker dull steel gray to fuligineous, umbo "buffy brown" in some, fading to "cinnamon buff" or "cream buff" shaded with gray; flesh firm, odor and taste none.

Lamellae close, narrow to in age moderately broad, equal, whitish gray then ochraceous tawny, edge whitish.

Stipe 3 - 7 cm. long, 1 - 2 mm. thick, equal, pallid gray fading out to merely pallid, longitudinally fibrous-striate over all when young, white pruinose-fibrous in age to nearly glabrous, strike disappearing in some.

Spores $12-16\times7-9~\mu$, elliptic in side view or the ventral line straightened, oval in face view, smooth, truncate from a broad apical pore, tawny-cinnamon in KOH; basidia 2-spored, $20-22\times8-10~\mu$ (sterigmata up to $90~\mu$ long), hyaline in KOH; pleurocystidia none; cheilocystidia ninepin-shaped, $17-22\times8-11\times2-2.5\times4-5~\mu$ (neck $2-2.5~\mu$ thick, head $4-5~\mu$ in diam.), smooth, hyaline in KOH; gill trama typical for the genus; pileus trama floccose-interwoven beneath a palisade layer of clavate-pedicellate cells forming the cuticle, a thin layer of gluten above the palisade and the palisade elements

Conocybe siligines Fr. (Sm-14), cont.

readily collapsing; caulocystidia fusoid-ventricose to contorted mostly 15 - 22 x 6 - 9 μ , some proliferated at apex, no capitate cells seen; clamp connections present.

Habit, habitat and distribution: Densely gregarious on a new seeding of grass, Univ. of Mich. campus,
June 12, 1934, Sm-14.

Observations: The gray pilei, collapsing cuticular cells, and the fascicles of misshapen caulocystidia are distinctive. No caulocystidia similar to the cheilocystidia were seen.

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Conceybe orispa (Longyear)

rearry ellipsoid when young, expanding to broadly and obtusely conic, often with a flaring margin, in age often conic-campanulate, surface even to slightly wrinkled, colors generally whitish to pallid, the disc often pinkish buff to cinnamon buff, or ochraceous tawny, hygrophanous but not changing color much from moist to faded state, glabrous, subviscid to viscid when moist atomate in age; flesh very soft and fragile, odor and taste none.

Lamellae close, adnexed to adnate, ascending, narrow, crisped and interveined - at times almost porcid, white becoming various shades of ochraceous tawny.

Stipe 4 - 10 cm. long, 2 - 5 mm. at apex, equal or enlarged downward, base slightly bulbous, hollow, fragile, pure white or tinged ochraceous, faintly striatulate at times.

Spores $12-16\times7-9\,\mu$, in side view subelliptic to obscurely inequilateral, in face view ovate, truncate from apical pore, smooth dark reddish cinnamon in KOH; basidia 4-spored, $20-2\mu$ (34) × $10-12\,\mu$, hyaline in KOH; paraphyses coprincid; pleurocystidia none; cheilocystidia scattered $16-19\times6-9\times4-5\,\mu$, ninepin-shaped, smooth, hyaline in KOH; gill trama interwoven, hyaline in KOH; pileus trama of floccose-interwoven hyphae, hyaline in KOH;

Conceybe crispa (Longyear), cont.

cutiole a palisade of clavate to vesiculose hyaline cells, scattered fuscid-ventricose pilocystidia scattered to rare, 24 - 38 x 5 = 8 (10) µ, apices acute to obtuse, generally fuscid-ventricose but some with corkscrew-like necks; caulocystidia not capitate mostly clavate to basidioid or filamentose, hyaline in KOH; clamp connections present but hard to demonstrate.

Habit, habitat and distribution: Gregarious on soil of a new grass seeding, U. of M. campus, July 7, 1934, Sm-58.

Observations: On the basis of basidia and paraphyses this species belongs in Bolbitius.

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Conceybe Sm-35620.

Pileus 1.2-3.2 cm. scross the base, 10-15 mm, high, obtusely comic with a straight margin becoming campanulate, surface neked and glabrous, hygrophanous, othraceous tawny to rusty cinnamon moist, cinnamon buff to pinkish buff feded; flesh very thin and delicate, fragile, odor and taste not distinctive.

Lamellulee, "buckthorn brown", edges even.

Stipe 2.5-b.5 cm. long, equal fragile, concolorous with cmp below and paler above, fibrillose-pruimase under a lens.

in side view to substitute, events in face view, smooth, rusty cinnamen in KOM, apex truncate from an apical pere; basidia 20-25 × 9-11 u; 4-spored, hyeline in KCM; pleurocystidia none; cheilocystidia 16-20 × 8-11 × 4-5 u nine-pin-shaped, hyeline in KOM, smooth, thin-welled; gill trame typical for genus; pileus trame of floccose-interweeven hyenho pale ochreceous towny near subhymenum and hyeline near cuticle; cuticle a palisade layer of pallid clavate cells with no pilocystidia present; caulocystidia ventricese et base and with a filamentose apical proliferation, none found with a capitallum; clamp connections rare and difficult to demonstrate.

Hebit, hebitat and distribution: On old cow dung. Pale Mt. Albeny County, Wyoming, July 9, 1950. Sm-34620.

Observations: This species has a more glabrous stipe than Sm-6356, and no capitate elements were found on the stipe.

Conocybe Sm-34620. Cont.

The two are very close, however and should be carefully compared on the besis of more collections.

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Fileus 1.5 - 3 cm. across the base, 1.5 - 2 cm. high, obtusely conic empanding to broadly conic, when young slightly viscid and near "sepia" on the disc, margin paler (near "avelleneous"), in age cinnamon tan with a wood brown (grayish) cast, margin somewhat sulcate, surface typically slightly rugulose; flesh thin, fragile, no odor or taste.

Lamella pale dull cinnamen becoming tawny, ascending-adnate, close, narrow, edges even.

Stipe S - 14 cm. long, 1.5 - 2 mm. thick, equal, elightly pruinose above, whitish but soon darkening from base up and becoming dark dingy cinnamon, the pruinosity more conspicuous in age, base slightly bulbous.

Spores 11 - 13 (15) x 5.5 - 6.5 (7) narrowly ellipsoid to narrowly and obscurely ovoid, smooth, truncate from an apical pore, rusty cinnamon in KOH; basidia 4 spored, 15 - 20 x 7 = 9 \(\mu\$, hyaline in KOH, pleurocystidia none; cheilocystidia abundant, ninepin-shaped 15 - 20 x 7 - 10 x 5 - 7 \(\mu\$, hyaline in KOH, amooth, thin-walled; gill trama typical for genus; pileus trama of floccose-interwoven hyphae; cuticle an irregular palisade of vesiculose and clavate cells intermixed, pilocystidia similar to the cheilocystidia scattered; caulocystidia similar to cheilocystidia; clamp connections present but difficult to demonstrate.

Conocybe Sm-23930, cont.

Habit, habitat and distribution: Scattered on clay soil in a park, Cherryville, Oregon, October 1, 1946, 8m-23930.

Observations: The habitat, long narrow spores, very long stipe which is pallid and then darkens, and both the pilocystidia and caulocystidia being similar to the cheilocystidia along with the dingy brown pileus which develops a grayish tone are distinctive. In Coll. 14651 there was a grayish tone to the faded cap; the stipes were white when young but soon changed to tawny from the base up, and at the base was an obscurely marginate bulb. In spite of the slight bulb these specimens clearly belong here the spores measured 10 - 13 x 5 - 6.5 \mu. In Coll. 49234 the cap was dark ochraceous tawny the stipe and gills paler ochraceous tawny, and the two carpophores show no tinge of gray as dried. I think 49234 represents a distinct taxon which never has a whitish stipe and which has less sombre colors.

Conocyba Sm-12093.

Pileus 1-3 cm, broad scross the base, conic with a streight margin, 10-15(20) am. Migh, merely becoming broadly cenic at maturtry, glabrous and maked when young and moist, "tawny" and with olese translucent strictions, bygrophenous and feding to "light echrocous buff", atomate when feded; flesh very thin and exceedingly fragile, odor and teste none.

lamellulae, nerrow, (1-1.5-2 ms.), ednets, "tevny", edges even.

Stipe 7-10 cm. long, 1-2.5 mm. thick, equal, hollow, very fragile, pruinose over all under a lone, pale yellow ("warm buff") above and "ochreceous tevny" or derker and more dingy below.

Spores 12-14x6-6.5(?) u,nerrowly olliptic in side view, narrowly ovate to ovete in face view (slightly compressed in some), smooth, rich tawny in KCH, truncate from a broad apical pore; basidia 4-spored, 20-24 × 10-16 Hz byaline in KCH or nearly so but sections of hymenium pale ochraceous; pleurocystidia none; cheilocystidia 15-29 × 9-13 Hz, lower portion broadly ventricose, neck short and thin and capitellum 4-5 H broad; gill trama typical for the genus; pileus trans floccose-interwoven, tawny to ochraceous tawny in KCH; cuticle a palisade of clavate cells with ochraceous wells (revived in KCH), only an occasional bairlike cell projecting from among them (3-6 Hz in diam and 15-20 Hz long); caulocystidia abundant and mostly nine-pin-shaped but some without the head and in some the head containing a bighly refractive granule; clamp connections present.

Conceybe Sm-12093. Cont.

Habit, habitet and distribution: Scattered in an old gerden plot, Kalaloch, Wash. Olympic Peninsula, April 29, 1939, Smm 12093.

Chserettions: The long narrow spores, lack of any gray cast to the pileus, yellow stipe before it derkens and proponderantly capitate caulocystidia of various shapes are the autstanding characters. The color of the pileus is that commonly found in the genus. In Sm-2522 the caps were slightly viscid moist, and the stipes 3-15 cm, long and 2-3 mm, thick. No pilocystidia were seen and the caulocystidia were similar in shape to the cheilocystidia but generally larger. These characters, however, do not appear to represent important differences.

Conceybe 6356-8m15h

Pileus 2-h.5 cm. across the base, 2-3 cm. high, obtusely conic with a streight margin, becoming breadly conic to conic-campanulate, surface glabrous, moist, evenly dark cinnamon and with translucent strictions moist, bygrophenous and fading to dingy buff or grayish tan, atomate feded; flesh fragile, concolorou with pileus, odor and taste not distinctive.

Lemollae, nerrow, escending adnate, close or in age subdistant, dingy tan becoming dark tawny to cinnamon-tawny, edges even.

Stipe 5-10 cm. long, 2-3 mm, thick, equal, strict, firm but fragile, pallid at first, in age toned raddish brown over all, stricts over upper half, lower half fibrillose stricts (about as in <u>Nyoena polygramma</u>).

Spores 10-13 × 5-6.5 B, ovoid to ellipsoid, smooth, apical pore fairly small and apex not conspicuously truncate, color rich cimmunos-tawny in ECN; basidia 4-spored, 18-22 × 8-9 μ. hyaline in ECN; pleurocystidia nome; cheilocystidia abundant, mins-pin-shaped, 18-18 × 7-11 × 4-5 μ, with scarcely any neck, hyaline in ECN; thin-welled; gill trama typical for genus (an intervoven central strend flanked by a layer of vesiculose or inflated cells on either side; pileus trama achraceous brown and floccase-filementous near subhymenus, paler near the cuticle of clavate to vesiculose cells which are thin-walled, hyaline and collapse readily; caulocystidia minute, ± filementose to filementose=capitate; class connections not demonstrated with certainty.

Conceybe 6356-Smith, Continued.

Hebit, hebitat, and distribution: On horse dung, Oak Hill Pond, Cakland County, Nich, June 17, 1937, Sm-6356.

Observations: This is a large dark cinnemon caprophilous species. I saw indications of clamp connections but nothing real convincing.

Conocybe 8m-13462

Pileus 15 - 25 mm. across the base, £ 1.5 cm. high, ellipsoid when young, expanding to obtusely conic and remaining so, at first minutely pubescent but soom naked, glabrous, when moist very faintly striatulate, "ochraceous tawny" when fresh and moist but in age watery and near "buckthorn brown", hygrophanous and fading to "clay color"; flesh thin, fragile, concolorous with surface, odor and taste none.

Lamellae close to prowded (about 25 reach the stipe), narrow (± 2 mm.), several tiers of lamellulae, narrowly adnate and soon seceding, "pinkish buff" young, dingy tawny at maturity, edges even.

Stipe 6 - 7 cm. long, 2 - 2.5 mm. thick, equal, hollow, fragile but rigid, "pinkish buff" young, concolorous with pileus in age, at first faintly pubescent (like the cap) but soon naked.

Spores $1^4 - 15 \times 9 - 10 \mu$ ellipsoid, smooth, truncate from an apical pore, yellow under microscope in H_2^0 mounts of fresh material; basidia 4 - spored; pleurocystidia none; cheilocystidia ninpin-shaped, $1^4 - 18 \times 8 - 10 \times 4 - 5 \mu$, hyaline, thin-walled; outicle of pileus a palisade of clavate to pear-shaped cells with narrow brownish filaments projecting from among them as pilocystidia.

Conceybe Sm-13462, cont.

Habit, habitat and distribution: Single on horse dung, Lake Quinault, Wash., May 17, 1939, Sm-13462.

Observations: The specimens in the box now labeled 13462 are not the species described here. Look for another collection of same number! Is this the same as 392337

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Conceybe Sm-39233.

Pileus 2.5-8 cm, broad across the base and 2-3 cm, high obtusely conic with a straight margin, expanding to broadly conic, surface moist and hygrophanous, russet to rich ochraceous towny, hygrophanous, and fading to cinnamon buff, margin faintly stricte in moist mature caps; flesh very thin and fragile, odor and taste not distinctinctive.

Lamellee narrow, ascending-adnate, crowded, edges even, pellid buff becoming ocureceous tawny or derker.

Stipe 10-15 cm. long. 2.5-3.5 mm. thick, equal, fragile.

* "cinnemon buff", often more watery, faintly longitudinelly
stricte, pubescent from projecting cystidia under a lens.

Spores 12-16 x 7-9 u, broadly elliptic to slightly ovate in fece view, in side view subelliptic, smooth, rusty cinnemon in KON, truncete at apex but not conspideously so, apical pore relatively small; basidia 20-23 x 10-14 u, u- spored, hyaline to yellowish in KON; challocystidia 16-22 x 8-13 x 4-5.5 u, nane-pin-shaped, hyaline in KON, thin-walled; gill trame typical for genus, cinnamon pallid in KON; pileus trame floccose and interwoven beneath a cuticle of clavate-pedicellate to inflated cells, with filaments 2.5-3.5 u thick scattered among them as pilocystidia, their apices not capitate; caulocystidia scattered, crooked-filamentose with spices not capitate; clemp connections present.

Woods, Pellston, Nich. July 23, 1952. Sm-39233.

Conocybe Sm-39233. Cont.

Observations: This is one of the large caprophilous darkly colored species with large spores, nive-pin-shaped cheilo-cystidia but pilocystidia and caulocystidia filementose.

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Pileus 1 - 2 cm. across the base, 12 - 18 mm. high, obtusely conic with a straight margin, surface glabrous, moist, hygrophanous, russet to rich tawny moist, fading to dull tan, becoming translucent-striate before fading, fragile, odor and taste none.

Lamellae close to crowded, narrow, ascending-adnate, dingy buff young, tawny-fulvous at maturity, edges even.

Stipe 3 - 6 (5) cm. long, 1 - 2.5 mm. thick, equal, fragile, delicate, pallid ochraceous and faintly pruinose above, base slightly darker and darkening considerably in age.

Spores 12 - 16 x 7 - 8.5 μ, ovate in face view, subelliptic to obscurely inequilateral in side view, tawnycinnamon in KOH, obscurely truncate from a small lensshaped pore; basidia (20) 24 - 34 x 10 - 14 μ, 2- and 4spored, sterigmata very stout on 2-spored basidia, hyaline
to yellow in KOH; pleurocystidia none; cheilocystidia
16 - 20 x 7 - 12 x 4 - 5 μ, hyaline to yellowish in KOH,
ninepin-shaped; gill trama typical for the genus; pileus
trama floccose-interwoven, the hyphae near the cuticle
heavily incrusted with rusty brown pigment; cuticle of
clavate-pedicellate cells with cohraceous brown pedicels
and ochraceous walls in the enlarged part (in KOH),
pilocystidia none; caulocystidia similar to cheilocystidia;
clamp connections present.

Conceybe Sm_45482, cont.

Habit, habitat and distribution: Scattered to gregarious on the outwash of the spring flood, East Fork of Lake Fork Creek, Payetto National Forest, Idaho, July 29, 1954, Sm-45452.

Observations: The broad spores with a relatively small spical pore and dark colors are typical of this subalpine Conocyos.

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Concerba lactes Lange. Sm-18307.

obtusely conic with a streight margin, expanding to broadly conic, the margin flared at times, surface glabrous, moist, hygrophanous, creamy white or at times the disc darker and near olumnmon buff, margin sometimes faintly stricts, moist), whitish over all when faced or again the disc pinkish buff or slightly darker; flesh very thin and fragile; odor and taste not distinctive.

Lemellae very narrow, close, ascending-adnate, whitish becoming bright ochraceous tawny, edges even.

Stipe 4 - 8 (10) om. long, 1.5 - 2 mm. thick at apex, equal or enlarged downward, white to whitish and unchanging, pruinose, very fragile.

Spores 12 - 16 x 7 - 9 μ, elliptic or nearly so in side view, ovate to elliptic in face view, smooth, dark rusty cinnamon in KOH, apical pore small but apex appearing truncate; basidia 2-spored, 20 - 24 x 10 - 12 μ, hyaline in KOH; pleurocystidia none; cheilocystidia 12 - 15 x 6 - 10 x 3 - 4.5 μ, capitellum very small, hyaline, thin-walled; gill trama typical for the genus; pileus trama floccose-intervoven, dingy ochraceous in KOH; outicle a palisade layer of vesiculose to clavate cells nearly hyaline in KOH, no pilocystidia found; caulocystidia of the contorted-filamentose type - of various sizes; clamp connections present.

Conceybe lactea Lange. Sm-18307. Cont.

Habit, hebitat and distribution: Densely gregarious on lawns, Saginaw Forest, Ann Arbor, Michigan, June 3, 1942. Sm-18307.

Observations: This is the commonest species of the genus in North America. It can be recognized by its pale color and habitat on lawns and in grassy places. The capitalium of the cheilocystidium is about the smallest in the genus.

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Conceybe necentipus (Atk.)

Galerula negantipus Atkinson Proc. Amer. Phil. Scc. 57:371. 1918.

Pilous 1.5-2.5 cm. broad, campanulate-convex.
Lamellae as in <u>C</u>. <u>antipus</u>.

Stips 3-7 cm. longo

Spores 11-14 × 6.5-8 n, fulvous, smooth, apical pore small; pleurocystidia none; cheilocystidia 15-24 × 6-9(10) × 3-5 μ , lecythiform; pileus trama with an hymeniform cuticle (no other data obtainable from type).

Habit, habitat and distribution: On a newly seeded lawn, Middlebury, Vt. Aug. 1896. E.A. Burt collector.

Observations: There is really not enough data for the recognition of this species. From data on type and original description C. lactes and C. necentious are not distinct.

Pileus 10 - 15 mm. broad, obtusely conic with a flaring margin, expanding to broadly conic with a spreading margin, surface moist and translucent-striate, hygrophanous, "antimony yellow" fading to "tilleul buff" (pale yellow fading to white); flesh very thin and fragile, odor and tasts not recorded.

Lamellae ascending adnate, seceding, narrow, close (15 - 16 reach stipe), very pale yellowish brown, edges even.

Stipe 4 - 5 cm. long, 1 mm. thick, equal, very fragile and delicate, whitish and pruinose i over all, naked and dingy yellow in age.

Spores 9 - 11 × 5 - 6 μ, obscurely inequilateral to subcliptic in side view, narrowly elliptic to ovate in face view, smooth, with a relatively thin wall and an obscurely truncate apex from the small apical pore, very pale yellow in H₂O mounts fresh, pallid einnamon mounted in KOH; basidia 4-spored, hyaline in KOH, 20 - 22 × δ - 9 μ; pleurocystidia none; cheilocystidia abundant, 12 - 16 × 7 - 12 × 3 - 4 μ, capitellum small; gill trama not revived well; pileus cuticle of a palisade of clavate-pedicellate nearly hyaline cells; caulocystidia 10 - 16 × δ - 10 × 3 - 4 μ, almost globose in ventricose part, hardly any neck, and a small capitellum; clamp connections present but difficult to demonstrate.

Pileus 10 - 15 mm. broad, obtusely conic with a flaring margin, expanding to broadly conic with a spreading margin, surface moist and translucent-striate, hygrophanous, "antimony yellow" fading to "tilleul buff" (pale yellow fading to white); flesh very thin and fragile, odor and taste not recorded.

Lamellae ascending adnate, seceding, narrow, close (15 - 16 reach stipe); very pale yellowish brown, edges even.

Stipe 4 - 5 cm. long, 1 mm. thick, equal, very fragile and delicate, whitish and pruinose ± over all, naked and dingy yellow in age.

Spores 9 - 11 x 5 - 6 μ, obscurely inequilateral to subelliptic in side view, narrowly elliptic to ovate in face view, smooth, with a relatively thin wall and an obscurely truncate apex from the small apical pore, very pale yellow in H₂O mounts fresh, pallid cinnamon mounted in KoH; basidia 4-spored, hyaline in KoH, 20 - 22 x S - 9 μ; pleurocystidia none; cheilocystidia abundant, 12 - 16 x 7 - 12 x 3 - 4 μ, capitellum small; gill trama not revived well; pileus cuticle of a palisade of clavate-pedicellate nearly hyaline cells; caulocystidia 10 - 16 x S - 10 x 3 - 4 μ, almost globose in ventricose part, hardly any neck, and a small capitellum; clamp connections present but difficult to demonstrate.

Conceybe Sm-14257, cont.

Habit, habitat and distribution: Scattered on soil, Elwha River, Olympic Mts., Wash., June 10, 1939, Sm-14257.

Observations: This is a truly pale yellow species with pale yellow spores fresh. The whitish stipe darkens to yellow below in age, but from the data available does not darken further.

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Conocybe capillaripes Pk. (Sm-52)

Pileus 3-15 mm. broad, obtusely conic to convex, the mergin straight at first, expanding to broadly conic or convex, sub-hygrophanous, surface moist and hoary at first, soon naked, near "olive brown" to "musmy brown" fading to "avellaneous" or near "wood brown", margin slightly stricts, alamate when faded; flesh exceedingly fragile, odor and taste none.

pallid becoming dull othercous tewny, edges even.

Stipe 1.5-3 cm. long, 1(2) mm. thick or almost filiform, fragile, pale gray and stricte at first or white fibrous-prunose, in age naked or nearly so and base becoming vinaceous brown or darker dull brown.

Spores 9-11 × 6-7 u, ovate in both views, smooth, rich tawny in KOH, truncate from an apical pere; besidie 4-spored, 18-20 × 9-11 u, clavete, hysline in KOH; pleurocystidia none; cheilocystidia 15-20 × 7-9(10) × 4-5 u, ventricose-cepitate, the neck ± 1.5 u thick (nine-pin shaped), hysline in KOH, smooth, thin-welled; gill treme not reviving well; pileus treme floccose-interwoven and rusty brown in KOH; cuticle on hymeniform layer of clavete cells, interspersed through it are scattered filementose pilacystidia, pigment incrusted hyphae give rise to cuticular layer; caulocystidia abundant near stips apex, fusoid-ventricose to clavete but no cepitate cells seen; clamp connections present.

Habit, habitat and distribution: Gregarious on a new seeding of grass U. of Mich. campus, July 5, 1935. Sm-52.

Conocybe capillaripes Pk. (Sm-52). Cont.

Observations: The dark brown pileus, slender stature, very fregile consistency, cepitate chailocystidia and fusoid caulocystidia are distinctive. It is much more fragile than C. siligines.

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Conocybe (Naucoria CA of Burke)

Pileus 2.5 - 5.5 cm. broad, obtusely conic expanding to plane or nearly so, glabrous, moist, hygrophanous, "ochraceous tawny" to "buckthorn brown" fading to "warm buff" and "antimony yellow", perfectly smooth, striatulate moist, in age when water-soaked near cinnamon brown; flesh thin and fragile, taste "strong, disagreeable, green gourdy" - Burke.

Lamellae close (± 32 reach stipe), narrow, adnate or finally with a tooth, dingy cream buff becoming clay color and drying dark tawny, edges even in age.

Stipe 3 - 5 cm. long, 2.5 - 3 mm. thick, with a flanged bulb at the base, tubular glabrous, smooth, longing tudinally ridged, and pruinose on the ridges, pale yellowish (Cartridge buff) young, darkening from base up to dingy cinnamon (Sayal brown), base compactly white mycelicid.

Spores 9 = 12 x 5 = 6.5 μ, ellipsoid to slightly ovoid, smooth, truncate from an apical pore; basidia 4-spored, 17 = 20 x 8 = 10 μ, hyaline in KOH; pleurocystidia none; cheilocystidia abundant, 16 = 20 (22) x 8 = 11 x 3.5 = 5 μ, nine-pin-shaped, hyaline or with ochraceous to brown content in KOH, gill trama typical for the genus; pileus of floccose-interwoven hyphae; cuticle on hymeniform layer of clavate-pedicellate cells with ochraceous walls (pedicels often rusty) and with scattered narrowly ventricose capitate pilocystidia 30 = 40 x 7 = 9 x 3 = 5 μ, often with rusty

Conceybe (Naucoria CA of Burke), cont.

brown content (in KON); caulocystidia similar to pilocystidia; clamp connections present.

Habit, habitat and distribution: Gregarious on open ground near a manure pile, October 31, 1942. Burke - (Nausoria CA).

Observations: This is one of the large-capped species which becomes fully expanded. Its characters in general appear routine for the coprophilous group except for the expanded cap and strong taste.

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Surcoraria Wating
Persoonia 6: 334, 1971

Pileus 1.5-3.5 cm. broad, obtuse to convex, becoming plane, glabrous or the margin occasionally with a few weil fragments if annulus fails to form, surface moist, hygrophanous, "ochraceous tawny" to "buckthorn brown" and striatulate, fading to "light ochraceous buff" or "pinkish buff"; flesh concolorous with the surface, fragile, odor and teste none.

(3-4 mm), 2-3 tiers of lamellulse, depressed-adnate and soon secoding, white when young, soon concolorous with moist pileus, edges even or becoming eroded.

Stipe 5-6 cm. long, 1.5-2 mm. thick, equal, tubular, fragile, Cinnamon buff to near/"buckthorn brown" above, near "bister" below, darker over all in age, faintly fibrillose-stricte, glabrescent; annulus median, membranous, fragile, whitish, with a very broad often recurved mergin, not stricte, underside fluffy-cottony, very evanescents

Spores 8-10(11) × 5-6 µ ellipsoid or nearly so, smooth, bright tawny in KOH, distinctly truncate (under high dry) from a broad apical pore; besidis 4-spored, 17-20 × 6-7.5 µ, hyaline in KOH; pleurocystidis none; cheilocystidis scattered, (28)30-37 × 7-10 µ ventricose with obtuse to capitate apices, hyaline, thin-walled, smooth; gildutrama interwoven, pale ochraceous in KOH; pileus trama floccose-interwoven beneath an hymeniform cuticle of clavate cells with rusty brown pedicles which have

Conscree Sm-13169, Cont.

somewhat thickened walls, or pedicals thin-walled and hyaline, clamp connections readily demonstrated on tissue of the stipe.

Habit, habitat and distribution: Scattered on horse dung. Hok River, near Spruce, Olympia National Park, Vash, Way 7, 1939. Sm-13169.

Observations: The slightly larger spores with a broader truncate apex, the paler color, and the capitate cheilocystidia are distinctive.

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Pileus 2 10 mm. broad, obtusely conic and remaining so, the margin appressed to stipe at first, surface glabrous, moist, hygraphanous, dull watery ochraceous tawny moist, fading to pale grayish avellaneous; flesh very delicate and fragile, odor and taste not distinctive.

Lamellae ascending adnate, narrow, meanly subdistant at maturity, tawny to slightly darker rusty cinnamon, edges even.

Stipe 3 - 4 cm. long, about 1 mm. thick, equal, very fragile, apex faintly pruinose, remainder naked and shining, pallid to hyaline above, dingy brownish below.

Spores 8.5 - 11 x 4.5 - 5 \(\mu\), elliptic or nearly so in side view, narrowly ovate in face view, smooth, apex obscurely truncate from a small apical pore, deep rusty cinnamon in KOH; basidia 16 - 20 x 7 - 8 \(\mu\), 4-spored, hyaline in KOH; pleurocystidia none; cheilocystidia small, 14 - 15 x 6 - 9 x 3 - 4 \(\mu\), hyaline, thin-walled; gill trama typical for genus; pileus trama of floccose-interwoven hyphae near cinnamon buff in KOH; cuticle a palisade of clavate-pedicellate cells with hardly any color in KOH, hair-like pilocystidia scattered, yellowish in KOH, apices not capitate; caulocystidia clavate and resembling immature basidia (no capitate cells seen); clamp connections present but very difficult to demonstrate.

Conceybe Sm-46585, cont.

Habit, habitet and distribution: Scattered on moss, Papoose Creek, Seven Davils Mts., Idaho, Aug. 23, 1954, Bigelow and Smith 46538.

Observations: The grayish cast evident in faded specimens is retained on drying. It is very close to Sm-52 but has distinctly narrower spores and much different habitat. Sm-33-731 grows on decaying hardwoods and has much darker colors and a pubescent stipe at first.

And the real property problems a problem when the

Pileus 1 - 2.5 cm. broad across the base and 1.5 cm.
high, obtusely conic and with a flaring wargin, remaining
unexpanded, glabrous, moist, hygrophanous, "cinnamon
brown" or a little paler and fading to "pinkish buff",
translucent striate moist; flesh thin, fragile, concolorous
with surface, odor and taste mild.

Lamellae close (about 19 reach the stipe), narrow (1.5 - 2 mm.), ascending adnate, soon seceding, ochraceous tawny at maturity, edges even.

Stipe 3 - 6 cm. long, 1 - 1.5 mm. thick, equal or base with a slight rounded bulb or slightly narrowed above, tubular, very fragile, faintly pruinose over all, or so only at the apex in age, pale honey color above, concolorous with pileus at the base.

Spores δ - 11 x 5 - 6 μ, narrowly elliptic in face view, in side view subelliptic to obscurely inequilateral, smooth, rusty-cinnamon in KOH, yellow in water mounts of fresh material, truncate at apex from a moderately broad pore; basidia 4- spored, 15 - 20 x δ - 11 μ, hyaline in KOH; pleurocystidia none; chetlocystidia ninepin-shaped, 16 - 22 x δ - 11 x 5 - 6 μ, scarcely any neck, smooth, hyaline, thin-walled; gill trama typical of the genus; pileus trama rusty cinnamon in KOH, floccose and interwoven; cuticle a palisade of clavate-pedicellate cells with rusty brown walls in the pedicels, no pilocystidia seen; caulocystidia present as short filaments and some with

Conceybe Sm-14109, cont.

capitate apices; presence of clamp connection uncertain.

Habit, habitat and distribution: Gregarious on conifer needles, Lake Crescent, Wash., June 6, 1939, H. E. Mix, (Sm-1)109).

Observations: This is an ordinary-appearing Conocybe with medium-sized spores.

Fileus 1 - 3.5 om. broad, obtusely conic with a straight margin, expanding to broadly conic, glabrous and naked at all stages, moist, hygrophanous, evenly "russet" when young, soon "ochraceous tawny" along the margin and faintly striatulate, fading to "cinnamon buff" or "pinkish buff", atomate when faded; flesh thin, fragile, concolorous with pileus, odor and taste none.

Lamellae close, narrow (2.5 - 3.5 mm.), ascending adnate, 2 tiers of lamellulae, edges even.

Stipe 3 - 5 cm. long, 1.5 - 2.5 mm. thick, equal, pallid honey color above and pruinose as well as longitudinally striate, appressed fibrillose lower down and sordid brown, gradually darkening to sordid dark reddish brown over all in age; no pseudorhiza present.

Spores 8 - 10 (11) × 4.5 - 5.5 μ, ellipsoid to ovoid, rusty cinnamon in KOH, smooth, apical pore medium-sized and apex truncate; basidia 4-spored, 18 - 22 × 8 - 9 μ, hyaline in KOH; pleurocystidia none; cheilocystidia abundant, ninepin-shaped, 25 - 35 × 10 - 18 × 6 - 11 μ, the neck very short, hyaline, thin-walled in KOH, smooth; gill trams typical for genus; pileus trams of floccose-interwoven hyphae dingy ochraceous tawny in KOH; outicle a palisade of clavate to vesiculose cells and interspersed freely through it are pilocystidia similar to the cheilocystidia, or with a longer neck 3 - 3.5 μ in diam., and

Conceybe Sm-19114, cont.

some with ochraceous content as revived in KOH; caulocystidia similar to cheilocystidia or larger and fatter, rare to abundant; clamp connections none as far as could be determined.

Mabit, habitat and distribution: Scattered on soil on a moist road bank, East Fork, Salmon River, Mt. Hood, Ora., Sept. 27, 1944, Sm-19114.

Observations: The small spores, the large cheilocystidia, and presence of pilocystidia and caulocystidia similar to them, and the russet naked pilei when young and fresh are distinctive.

In Thier's No. 42 from a recent burn in the upper French Creek area of the Medicine Bow National Forest in Wyoming the spores measured 9 - 11 × 5 - 6 μ but the pilocystidia, cheilocystidia and caulocystidia were typical. In age the stipe was smooth and shining. The taste was slightly farinaceous and the odor fungoid. These characters plus the habitat may indicate that we have here a distinct taxon but at present I doubt it.

Conceybe intruse (Pk) Singer

Pileus 2.5-6 cm. broad, obtuse to convex when young, expanding to plane or with the disc slightly depressed, glabrous, whitish to dull clay color, at times otherceous tawny to tawny, viscid when moist, even to radially wrinkled; flesh thin, whitish, odor and taste slightly of radish.

Lemellae rounded behind, adnexed to almost free, thin, close, moderately broad to narrow, whitish at first, soon creamy yellow-ish to tawny ochraceous, finally umber brown, edges slightly creaulate.

Stipe 3-6 om. long, 4-10 mm. thick, equal or tapering, more or less abruptly bulbous, stuffed becoming hollow, whitish, even or striate above, minutely floccose at first, glabrescent.

Spores 6-8 × 4-5 E, oval in face view, elliptic in side view to ebscurely inequilateral, cianamon in mass, rusty cianamon in KOE, apex truncete from a moderately broad apical pore; basidia 23-26 × 6-7 E, 4-spored; pleurocystidia none seen; cheilocystidia nine-pin-shaped.

Conocybe intrusa (Pk) Singer Cont.

Mabit, habitat and distribution: Solitary to caspitose, on soil in green houses, uncommon.

Observations

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Pileus 4 - 10 mm. broad, broadly convex to plane, evenly "pale pinkish buff" when faded (colors when moist not obtainable), pruinose from cystidia, margin faintly sulcate; flesh rigid and very brittle.

Lamellae moderately close, adnate or slightly toothed, moderately broad, ochraceous tawny from the spores.

Stipe 1 - 2 cm. long, 1.5 mm. thick, equal, fragile, pale gray, covered by minute white-fibrous particles and often longitudinally striate, base somewhat cottony.

Spores $7-9 \times 4.5-5.5 \,\mu$, ellipsoid to obscurely inequilateral in side view, oval in face view, smooth, rusty cinnamon in KOH, apical pore present but apex only obscurely truncate; basidia 4-spored, $20-24 \times 6-6 \,\mu$, clavate, hyaline in KOH; pleurocystidia none; cheilocystidia ninepinshaped, $15-20 \times 7-9$ (10) $\times 4-5 \,\mu$, hyaline in KOH; gill trama typical of the genus; pileus trama of floccoseinterwoven hyphae tawny in KOH; cuticle a palisade of clavate-pedicellate cells hyaline to yellowish in KOH and interspersed among these are many ninepin-shaped pilocystidia $20-30 \times 7-10 \times 4-5 \,\mu$, the necks often elongated; caulocystidia similar to cheilocystidia; clamp connections present.

Habit, habitat and distribution: Gregarious on manured soil freshly seeded to grass, U. of M. campus, June 26, 1934, Sm-44.

Conceybe Sm-44, cont.

Observations: This is a broad-capped, short-stiped species which is extremely fragile, has small spores, abundant capitate pilocystidia, and a gravish stipe.

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Fileus 6 - 12 mm. broad, obtusely conic expanding to convex, striate moist, surface glabrous, hygrophanous, dull ochraceous tawny moist, fading to cinnamon buff and with a grayish tone dried:

Lamellae <u>broad</u>, close, ascending-adnate at first, pallid brownish young rusty cinnamon at maturity, edges even.

Stipe 2.5 - 3.5 cm. long, about 1 mm. thick, equal, fragile, pale ochraceous tawny over all, pruinose especially above, naked below.

Spores $7-9 \times 5-5.5 \mu$, ovate in face view, broadly and obscurely inequilateral in side view, tawny cinnamon in KOH, smooth, truncate from an apical pore; basidia 4-spored, $12-16 \times 9-10 \mu$, yellowish to hyaline in KOH; pleurocystidia none; cheilocystidia abundant, ninepin-shape, $15-23 \times 9-12 \times 6-7 \mu$, ventricose portion almost globose, hyaline and smooth in KOH; gill trama typical for genus; pileus trama of floccose-intervoven hyphae dark ochraceous tawny in KOH from incrusting material; outicle a palisade of clavate-pedicellate cells with vesiculose elements intermingled and also rarely some pilocystidia similar to the cheilocystidia or less ventricose; caulocystidia similar to cheilocystidia; clamp connections present.

Habit, habitat and distribution: On moss, Papoose Creek, Seven Devils Mts., Idaho, August 23, 1934, Bigelow and Smith 46637.

Conceybe 8m-46637, cont.

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Observations: The short fat spores separate this from 46588, but there are differences in the color of the stipe and size of the cheilocystidia as well.

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Conocybe pilosella (Fr.) Kuhner - Sm. 4150

Pileus 1 - 3 cm. broad, broadly convex with a curved—
in margin, expanding to nearly plane, at first densely and
finely pubescent but soon naked and glabrous, striate when
moist, hygrophanous, "bister" to "mummy brown" on disc and
near "snuff brown" over the margin, becoming paler before
fading to avellaneous over marginal area and disc a dingy
tan at times shaded with gray; odor and taste not recorded.

Lameliae growded, narrow, adnate, whitish becoming dingy tawny-cinnamon, edges even.

Stipe 2 - 3 cm. long, ± 1.00 mm. thick, equal, whitish, pubescent, slightly brownish at base in age; no veil present.

Spores 6-6.5 (7) x 3.5 μ , obscurely inequilateral in side view, elliptic to oblong in face view, smooth, pale tawny in KCH, apical pore very minute and apex not truncate; basidia 4-spored, $20-22\times6-7$ μ , hyaline in KCH; pleurocystidia none seen; cheilocystidia abundant, ninepin-shaped, $18-23\times9-12\times4-5$ μ , hyaline in KCH, thin-walled, smooth; gill trama typical for genus; pileus trama of floccose-interwoven hyphae pallid to tawny in KCH; cuticle a palisade of clavate cells with dingy brown pedicels and some cells filled with a pale bister content, pilocystidia present as contorted filaments mostly with capitate apices; caulocystidia ventricose at base with elongated neck

Conocybe pilosella (Fr.) Kuhner - Sm-4150, cont.

or neek produced into a crooked filament and in neither case capitate; clamp connections present.

Habit, habitat and distribution: Scattered on debris Lake Timagami, Ontario, August 26, 1936, Sm-4160.

Observations: The minute spores are distinctive along with the capitate cheilocystidia and pilocystidia and non-capitate caulocystidia. The colors, in addition, are very dingy brown for the genus.

electrical by a first of a first in the property of the latter which

Pileus 10 - 20 mm. broad, 8 - 12 mm. high, obtusely conic, in age the margin flaring and the umbo obtuse, surface moist and hygrophanous, dark tawny to "ochraceous tawny" moist, (margin paler than disc), fading on the disc or around it first to a "cinnamon buff", moist margin translucent-striate, surface ± hoary-pubescent at first, soon naked; flesh thin and fragile, odor and taste not distinctive.

Lamellae close, narrow, ascending-adnate, near cinnamon buff and becoming "ochraceous tawny or duller, edges even.

Stipe 1.5 - 2 cm. long, 1.5 - 2.5 mm. thick, equal above a small clavate basal bulb, fragile, watery honey color beneath a dense pruinose-pubescent coating at first, changing to dark honey color to dull tawny in age.

Spores $7-6\times 4-4.5\,\mu$, obscurely inequilateral in side view, in face view narrowly elliptic to ovate, smooth, pale tawny in KOH, apical pore not evident (under high dry lens) and apex not appearing truncate; basidia 4-spored, $14-17\times 6-7\,\mu$, hyaline in KOH; pleurocystidia none; cheilocystidia numerous, $15-20\times 6-10\times 4-5\,\mu$, ninepinshaped with a very thin, short neck, hyaline in KOH, thin-walled; gill trama typical for genus, ochraceous in KOH; pileus trama of floccose interwoven hyphae pale ochraceous

Conceybe Sm-31236, cont.

to pale tawny in KOH; cuticle a palisade of clavatepedicellate and vesiculose cells in somewhat staggered
arrangement, the walls pale cohraceous, pilocystidia present,
capitate and gradually enlarged from the neck to the base,
20 - 26 x 5 - 7 x 4 - 5 \$\mu\$, hyaline or dingy ochraceous in
KOH; caulocystidia filamentose 20 - 35 x 4 - 4.5 (5) \$\mu\$,
often crooked, many nests of clavate cells 15 - 20 x 7 - 8
also present (none seen with sterigmata); clamp connections
rare and difficult to demonstrate.

Habit, habitat and distribution: Scattered on an alder log, Lower Takoma Creek, Mt. Rainier National Park, Washington, September 14, 1948, Sm-31236.

Observations:

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Pileus 1 - 2.5 cm. broad, obtusely conic with a straight margin when young, expanding to broadly conic or nearly convex, surface moist and hygrophanus, "cinnamon brown" or nearly so moist and then finely pubescent from projecting pilocystidia, naked in age and then usually pale tan; odor and taste not recorded.

Lamellae, adnate, crowded, narrow, odges even, when young pinkish buff, darker cinnamon to dull tan in age.

Stips 2 = 1 (6) cm. long, 1 - 1.5 mm. thick, equal, fragile, pubescent like the pileus, dingy honey color over all or pallid above at first, darkening from base upward.

Spores 6 - 7 x 4 - 4.5 μ , elliptic in face view, elliptic to obscurely inequilateral in side view, smooth, tawny in KOH, apical pore present but minute; basidia 4-spored, 22 - 25 x 7 - 9 μ , yellowish in KOH (sections of hymenium); pleurocystidia none; cheilocystidia abundant 18 - 24 x 7 - 12 x 4 - 6 μ , ninepin-shaped, smooth, many yellowish in KCH; gill trama interwoven, rusty yellow brown in KOH; pileus trama rusty brown in KCH, of floecese interwoven hyphae; cuticle a palisade of clavate pedicellate cells slightly colored in KOH, numerous pilocystidia present, narrowly ventricose and apex often proliferated into a contorted filament, many with merely obtuse apices and many with dingy ochraceous content; caulocystidia in patches,

Conceybe Sm-25948, cont.

ventrices at base and with contorted apices; clamp connections present.

Habit, habitat and distribution: Scattered on very rotten wood, Harbor Springs, Michigan, July 23, 1947, 8m-25946.

Observations: There are no capitate pilocystidia, which separates it from Sm-4150 and the spores are broader.

Conocybe Sm-33-731.

Pileus 1-2 om. broad, obtusely conic, expanding to broadly conic or with a flaring margin, surface glabrous (or minutely pruinose pubescent), moist, hygrophaonous, "Bay" when young, fading slowly to tawny, stricte to disc when moist; flesh thin, odor and taste not distinctive.

Lamellae very nerrow, close, adnete, cinnamon, edges even and not fimbriate.

Stipe 2-4 cm. long, ± 2 mm. thick, whitish at first and pubescent, soon only white-fibrous, striate at apex, glabrescent below, cinnamon in age; no veil present (buttons observed).

Spores 7-9 × 4-4.5 H, obscurely inequileteral in side view.

ovate in face view to subelliptic, smooth, rusty cinnemon in

KOH, opex with a small pore but not truncate; basidia four-spored,

20-24 × 7-9 H, hyeline in KOH; pleurocystidia none; cheilocystidis scattered, 23-27 × 7-10 H, nine-pin-shaped, hyaline in KOH,

thin-walled; gill trama typical for genus; pileus trama with a

cuticle of clavate to inflated nearly hyaline cells among which

ere interspersed filements 3-5 H in diam. as pilocystidia;

clamp connections not found.

habit, habitat and distribution: Scattered on a rotten hardwood log, Earbor Springs, Mich. Aug. 21, 1933. Sm-33-731.

observations: Buttons were observed and there was no veil so C. septentrionalis is ruled out. The deep red-brown young pilei, pale cinnamon gills at the same stage, and whitish

Conocybe Sm-33-731.

pubescent stips which derkens to cinnamon in age are distinctive.

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