

12. Sporocarps silvery white, pileal surface strongly fibrillose or sparsely fibrillose-scaly near margin; gills deep reddish at first; stipe elongate and often well inserted in substrate (appearance tall and slender)Agaricus "chronodermus"
12. Sporocarps pale brownish to warm brown, pileus squamulose to scaly, especially along margin; stipe equal and rather short (appearance not unlike cultivated mushroom) Agaricus subfloccosus
- 13 (9). Ring collar- or band-like, the upper limb of a sheath surrounded lower stipe, upper part flaring up and outward when young, often deeply furrowed above, occasionally two rings forming on stipe; flesh thick and hard; stipe narrowed to a pointed base, inserted in soil; pileus white to dingy brownish; parks, road shoulders, lawns, or disturbed areasAgaricus rodmani
13. Not entirely as in above; ring not collar-like and furrowed above... **14**
5. Stipe-base not turning yellowish within (the surface may bruise yellowish if rubbed); odor of anise or almonds; ring not so obviously two-limbed, merely scaly or cottony beneath**7**
6. Pileus pale brownish and scaly to squamulose; gills pink at first; ring ample; occurring under deciduous trees in Santa Fe; uncommonAgaricus "placomyses"
6. Pileus white or with a pale tan disc (in age gradually discoloring tan to dingy brownish), surface not scaly or squamulose; ring usually narrow, though thick; occurring under cottonwoods, often along streams or wooded pastures...Agaricus xanthodermus var.? (the only toxic Agaricus in Santa Fe)
7. (5). Mushroom sporocarps white or faintly brownish at disc, in age becoming very pale tan, convex to inverted bowl-shaped; stipe thick and ventricose (like Boletus edulis), ring thick and ample; gills pink (young); occurring under pinyon-juniper up to ponderosa pine zone.....Agaricus "pinyonensis" (7000-8500 feet elevation)

NOTES:

1. Mushroom sporocarps turning yellow if rubbed or cut, or staining pale yellow to chrome yellow inside base of stipe when cut; odor of anise, wet straw, almonds, of carbolic acid or creosote..**2**
1. Mushroom sporocarps not turning yellow if rubbed or cut (very occasionally becoming slightly yellowish in age), nor turning yellowish in base of stipe; odor mild, faint, not as above..... **9**
2. Mushrooms growing in parks, lawns, pastures, grassland prairies, etc., not occurring in woodlands or forests..... **3**
2. Mushrooms growing in woodlands, forests, or riparian areas (under cottonwoods, etc.) ...**4**
3. Large, thick-fleshed species (occasionally gigantic, pileus up to 35 cm in diameter or more), pileus whitish appressed-scaly or broken up into pyramidal scales or warts (crocodile-like); often occurring in fairly rings; odor of wet straw &/ or) almond; eastern NM to CO...Agaricus crocodilinus (=A. praerimosus).

7. Not as above; stipe not strongly ventricose, not occurring under pinyon-juniper**8**
8. Sporocarps usually large and white, pileus 6 cm or more in diameter; odor of almonds (if fresh); ring ample, double with scaly patches beneath; in spruce-fir down to upper limit of ponderosa pine.....Agaricus "silvicola"
8. Small sporocarps, pileus up to 6 cm in diameter, disc a dirty brownish to purplish brown; ring small, single, delicate; in pinyon-juniper woods up into mixed conifer forest (also in spruce-fir?)Ice Cream Mushroom (Agaricus semotus)
- 9 (1). Mushrooms occurring in pinyon-juniper woodland, or mixed conifer forests of pine and fir well up into spruce-fir zone.....**10**
9. Mushrooms not occurring in forests, usually occurring in lawns, golf courses, road shoulders, camp grounds, pastures, manure piles, etc.....**13**
3. Smaller than above, pileus chalky whitish, smooth or faintly fibrillose, not strongly scaly; not occurring in fairy rings; odor of almonds; occurring in lawns, parks, etc. in Santa Fe (to date), not common.Agaricus nivescens (not A. arvensis!)
- 4 (2). Pileus fibrillose scaly, brownish-ochraceous; stipe rather long and inserted deeply in substrate (not bulbous); odor of almonds; ring ample and yellowish, double (with scale-like or floccose patches on undersurface); infrequent in woodlands (pinyon juniper) up into conifer forests.Agaricus augustus var. ?
4. Pileus not strongly fibrillose-scaly, and brownish-ochraceous; stipe not deeply inserted in substrate; not otherwise as in above.....**5**
5. Stipe-base pale yellowish to chrome-yellow if cut within; odor usually of creosote or carbolic acid (unpleasant); ring of two parts, an upper flaring limb and a lower, narrow collar like limb often breaking into segments.....**6**
10. Mushrooms occurring in high spruce-fir zone, often growing in thick duff or on cone beds; pileus dark reddish brown, scaly to squamulose; stipe rather tall and brownish with a thin ring; flesh turning reddish to brownish red promptly if cut or rubbedAgaricus "silvaticus"
10. Not as above; pileus not deep reddish brown, nor strongly scaly to squamulose; flesh may or may not turn reddish, but usually rather slowly so**11**
11. Mushroom sporocarps white or faintly brownish at disc, in age often becoming very pale tan, pileus inverted bowl-shaped to convex; stipe thick and ventricose (like Boletus edulis); ring thick and ample; gills pink at first; occurring under pinyon-juniper up to edge of ponderosa pine zone.....Agaricus pinyonensis
11. Not as above; if mushroom sporocarps white, then the pileus not deeply inverted bowl-shaped, nor the stipe thick and ventricose; occurring above the pinyon pine – ponderosa pine zones.**12**
14. Mushrooms occurring in lawns, golf courses, parking lots, pastures, or grassy areas from mountains to desert regions; pileus silky fibrillose, white; ring single and delicate, occasionally disappearing; stipe narrowed to a pointed base; gills pink when young ...
...Meadow Mushroom (Agaricus campestris)
14. Mushrooms occurring in manure piles, flower beds, gardens, corrals, or other places where manure accumulates or has been left.**15** Wild forms of the cultivated mushroom
15. Pileus white or slightly brownish at disc, fibrillose to scaly, rather large, 8-12 cm or more in diameterAgaricus bisporus (white form)
15. Pileus pale brownish to dingy whitish tan, smooth to slightly squamulose at margin, smaller than above.....Agaricus bisporus (pale brown, slender form)