

DRAFT - 31 Oct. 2006
re: Calendric timing of lavender reactions in “citrinoid” amanitas
in eastern North America.

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This PDF file is a set of rough notes that suggest that collections of what is confirmed to be, or could be, *Amanita citrina* f. *lavendula* are more likely to contain at least one specimen with lavender or deeper purple tints as nights become colder toward the end of a given year.

Raw data on collections of “*citrina*” *sensu lato auct. amer.* is presented in Table 3. Entries in the “lavender” column are identifiers for collections. Magenta coloration of items in this column and presence of a counter mark those collections in which at least one fruiting body had lavender on it when collected or after it was exposed to a cold night after collecting. The last numbered entry in the “Bag/Herb.” column of Table 3 provides the total count of collections from which data is employed. The last numbered entry in the “lavender” column of Table 3 gives the number of collections from which at least one basidiome had a lavender tint somewhere on it as recorded in a color photograph or in existing written notes on the collection. Of the collections from which data is available the minimum percentage of lavender tinted collections is 44%.

Note: Florida collections all lack any lavender tint; and, because of the predominantly temperate winters in Florida, these collections are not treated in counts and averages.

In Table 3, dates that are prefixed with a number are dates on which at least one collection is cited in the table. When a two number prefix is present, the first counts the dates with representative collections. The second number counts the number of dates having at least one collection reported in the “lavender” column. At present, the percentage of dates on which at least one “lavender” collection was reported is 43%.

Table 3: Raw data and counts

#	Date	lavender	L' (μm)	W' (μm)	Q'	locale	Notes	Bag/Herb.	state
10	09 8								
11	09 9								
12	09 10								
13	3. 09 11	340-3				Jamesburg Co. Pk., ca. Helmetta, Middlesex Co., NJ	Possibly brunnescens?	3. AJ2	NJ
14	4-1. 09 12	1. 071-1				Pack Forest, Warrensburg, Warrensburg Co., NY	2 ft. from specimen of f. citrina. Under <i>P. strobilus</i> .	4. 8A92A	NY
15	09 13								
16	5. 09 14	237-5				Bell Labs prop., Hopewell Twp., Mercer Co., NJ		5. 10A84D	NJ
17	09 15								
18	09 16								
19	09 17								
20	6. 09 18	174-3				Assunpink, WMA, Monmouth Co., NJ	-	6. AMus	NJ
21	7. 09 18	FMR-5	8.6	8.2	1.05	Fernow Exp. For., Tucker Co., WV		7. FWVA	WV
22	8. 09 18	PW-2	8.0	7.6	1.06	Fernow Exp. For., Tucker Co., WV	pine woods	8. FWVA	WV
23	9. 09 18	237-4				Jamesburg Twp. Pk., ca. Helmetta, Middlesex Co., NJ	-	9. 10A84D	NJ
24	10-2. 09 18	2. Coker 853				Tenny's meadow, ca. Chapel Hill, NC	In dense pine grove, SW of old brick yard	10. NCU	NC
25	09 19								
26	11. 09 20	004-2				Assunpink, WMA, Monmouth Co., NJ	-	11. 8A88A	NJ
27	12. 09 21	250-3				Devil's Hopyard St. Pk., East Haddam, Middlesex Co., CT	-	12. 9A96A	CT
28	13. 09 22	249-9				The Hemlocks Nature Educ. Ctr., Hebron, Tolland Co., CT	-	13. 9A96A	CT
29	09 23								
30	14. 09 24	AHSm 11066	8.3	7.7	1.07	George Reserve, MI	lectotype (des. mihi) of <i>A. brunnescens</i> var. <i>straminea</i> . Along edge of bog.	14. MICH	MI
31	09 24	? Coker 427				Battle's Pk., ca. Chapel Hill, NC	mixed woods behind Dr. Willson's	15. NCU	NC
32	09 24	? Coker 430				Battle's Pk., ca. Chapel Hill, NC	mixed woods behind Dr. Willson's	16. NCU	NC
33	09 25								
34	15. 09 26	234-8				Herrontown Woods, Princeton Twp., Mercer Co., NJ		17. 10A84E	NJ
35	16. 09 27	223-6				Mt. Tom St. Pk., Holyoke, ? Co., MA	-	18. 4A87B	MA
36	09 27	? 396-3	8.2	7.6	1.08	Cades Cove, picnic area, GSMNP, Blount Co., TN	No lavender noted on f.b.s	19. 10A06A	TN
37	09 28								
38	09 29								
39	17-3. 09 30	3. 396-2	7.2	6.1	1.18	Wildacres Retreat, ? Co., NC	strong lavender on lower stipe &, particularly strong, on exposed stipe context	20. 10A06A	NC

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#	Date	lavender	L' (μm)	W' (μm)	Q'	locale	Notes	Bag/Herb.	state
40	10 1								
41	18. 10 2	Coker 165				Battle's Pk., ca. Chapel Hill, NC	spores small, [no mention of lavender on f.b, 1909 (early) collection]	21. NCU	NC
42	10 3								
43	10 4								
44	19. 10 5	111-4				Waretown, Ocean Co., NJ	Under <i>Pinus</i> .	22. 10A93A	NJ
45	10 5	? Coker 510				ca. Chapel Hill, NC	E of school house	23. NCU	NC
46	20. 10 6	210-2				Stokes St. For., Sussex Co., NJ	terat.?	24. 9A85B	NJ
47	10 6	210-4				Stokes St. For., Sussex Co., NJ	Hemlock-northern hardwood forest	25. 9A85B	NJ
48	10 7								
49	21. 10 8	93-09	8.4	8.0	1.05	Fernow Exp. For., Tucker Co., WV	hardwood for. dominated by red oak, beech, and sugar maple	26. FWVA	WV
50	22-4. 10 9	4. 133-4				Loc.: Pakim Pond, Lebanon St. For., Burlington Co., NJ	Pine-oak barrens	27. 9A94A	NJ
51	23-5. 10 10	5. 073-8				Cranberry Hole Rd., Napeague, East Hampton Town, Suffolk Co., NY	Annulus w/ lavender tint. Under <i>Q. ilicifolia</i> & <i>P. rigida</i>	28. 1A98A	NY
52	10 10	080-4				Tefft prop., ca. Junction City, Perry Co., OH	Under <i>Quercus</i>	29. 1A93A	OH
53	10 10	111-6				Waretown, Ocean Co., NJ	Under <i>Pinus</i>	30. 10A93A	NJ
54	10 11								
55	10 12								
56	10 13								
57	24-6. 10 14	6. TFB 12917	7.1	6.4	1.11	Rabbit Crk. Tr., GSMNP, Blount Co., TN	based on spore measurements	31. TENN	TN
58	25-7. 10 15	7. Coker 1355				ca. Chapel Hill, NC	woods S of campus	32. NCU	NC
59	10 16								
60	26-8. 10 17	8. Coker 570				ca. Chapel Hill, NC	along Howell's Branch E of ravine	33. NCU	NC
61	10 17	296-7				Jamesburg Twp. Pk. ca. Helmetta, Middlesex Co., NJ	No lavender on fresh f.b. Sandy soil, pine-oak barren.	34. 10A86A	NJ
62	27-9. 10 18	9. Coker 590				ca. Chapel Hill, NC	along Howell's Branch E of ravine	35. NCU	NC
63	28. 10 19	070-8				Elie's Corner, E. Windsor Twp., Monmouth Co., NJ	-	36. Box 1	NJ
64	10 20								
65	29-10. 10 21	10. Coker 1399				on bank above branch 1/8 mi below Meeting of the Waters, ca. Chapel Hill, NJC	photo	37. NCU	NC
66	10 21	11. 398-6				in native forest, Jakes Landing Rd., Cape May Co., NJ	photos, large collection, hypermagenta +	38. 10A06B	NJ
67	10 21	397-7				Jakes Landing Rd., Cape May Co., NJ	hypermagenta -	39. 10A06A	
68	10 21	12. 397-10				Jakes Landing Rd., Cape May Co., NJ	photos, single f.b., hypermagenta weak in stipe	40. 10A06A	NJ

Table 3: Raw data and counts

#	Date	lavender	L' (μm)	W' (μm)	Q'	locale	Notes	Bag/Herb.	state
97	11 14								
98	11 15								
99	11 16								
100	11 17								
101	11 18								
102	11 19								
103	11 20								
104	11 21								
105	11 22								
106	11 23								
107	11 24								
108	11 25								
109	11 26								
110	11 27								
111	40-18. 11 28	23. 132-7				Seneca, Oconee Co., SC (85-B)	Pallid, depauperate form lacking tyrosinase. hypermagenta +	56. 11A85A	SC
112	41-19. 11 28	? 133-1	6.6	5.5	1.19	Waretown, Ocean Co., NJ	No notes on colors.	57. 11A85A	NJ
113	11 29								
114	42-20. 11 30	24. 131-2				Seneca, Oconee Co., SC	-	58. 11A85A	SC
115	11 30	132-2				Seneca, Oconee Co., SC	-	59. 11A85A	SC
116	11 30	132-3				Seneca, Oconee Co., SC	-	60. 11A85A	SC
117	11 30	132-10				Seneca, Oconee Co., SC	-	61. 11A85A	SC
118	12 01								
119	43-21. 12 02	25. 145-10				Choctaw Crk. woods, ca. Saucier, Harrison Co., MS	-	62. 6A90A	MS
120	12 03								
121	12 04								
122	12 05								
123	12 06								
124	12 07								
125	12 08								
126	12 09	0257-2				Mud Springs Nat. Tr., Welaka St. For., Welaka, Putnam Co., FL	Sandy soil - mixed forest of oak, fan palm, and 3-needle pine	2A97A	FL
127	12 09	0257-3				Mud Springs Nat. Tr., Welaka St. For., Welaka, Putnam Co., FL	Sandy soil - mixed forest of oak, fan palm, and 3-needle pine	2A97A	FL
128	12 10	0257-1				Mud Springs Nat. Tr., Welaka St. For., Welaka, Putnam Co., FL	Sandy soil - mixed forest of oak, fan palm, and 3-needle pine	2A97A	FL
129	12 11	257-6				Mud Springs Nat. Tr., Welaka St. For., Welaka, Putnam Co., FL	Sandy soil - mixed forest of oak, fan palm, and 3-needle pine	2A97A	FL
130	12 12	257-4				Mud Springs Nat. Tr., Welaka St. For., Welaka, Putnam Co., FL	Sandy soil - mixed forest of oak, fan palm, and 3-needle pine	2A97A	FL

