

MYCOLOGICAL RESEARCH IN THE BIG THICKET NATIONAL PRESERVE FOR 2010

Mycological research for the year 2010 was conducted within the Lance Rosier Unit, Turkey Creek Unit, Menard Creek Corridor Unit and Canyonlands Unit of the Big Thicket National Preserve.

In total 242 collections and observations were made in 2010 and include 128 different taxa determined to species and 40 collections that need further taxonomic work. At least 14 species were new records for the Big Thicket National Preserve and about 19 species were state records. Three species are new to science. New state records include *Boletus innixus*, *Crepidotus crocophyllus*, *Gymnopilus liquiritiae*, *Laccaria ohiensis*, *Leucoagaricus brunnescens*, *Mitrula lunulatospora* and *Russula amoenolens*.

The genus *Hygroaster*, collected in the Lance Rosier Unit, is new for the USA. We are awaiting examination by an expert on that genus to see if it is a new species. Two new species of *Cantharellus* were collected and recently published by Buyck and Hofstetter (2011). The ascomycete fungus, *Hypocrea peltata* a pantropical species, was recorded for the USA from collection made in the Big Thicket National Preserve and other Gulf Coastal states (Samuels, et al 2011).

The ten most common genera were *Amanita* (9), *Marasmius* (9), *Russula* (6), *Cantharellus* (5), *Boletus* (4), *Trametes* (6), *Entoloma* (5), *Polyporus* (5), *Gymnopilus* (4), and *Gymnopus* (4). Collections are/will be deposited at the Field Museum, Chicago, Ill, The Tracey Herbarium, College Station, Texas, and the Field Research Station, Saratoga, Texas.

Literature cited:

Buyck, B. & V. Hofstetter. 2011. The contribution of tef-1 sequences to species delimitation in the *Cantharellus cibarius* complex in the southeastern USA. Fungal Diversity (Published online 12 March 2011).

[*Cantharellus altipes* Buyck & V. Hofstetter (Holotype, Texas: Montgomery Co., Conroe), Newton Co., Bleakwood, Site 7, Toledo Bend Reservoir; Hardin Co., Lance Rosier Unit, BTNP; *Cantharellus lateritius* (Epitypus, Newton Co., Bleakwood; *Cantharellus lewisii* (Holotype, Texas: Newton Co., Bleakwood, Mayflower, Tyler Co., Forest Lake Exp. Forest; *Cantharellus tenuithrix* (Holotype, Newton Co., Lewis Chapel Community, Sand Ridge Road), Site 7, Toledo Bend Reservoir]

Samuels, Gary J. & Adnan Ismaiel. 2011. *Hypocrea peltata*: a mycological Dr Jekyll and Mr. Hyde? Mycologia 103 (3): 616-630.

[*Hypocrea peltata* (Jungh.) Berk. Texas: Turkey Creek Unit between Pitcher Plant trail and FM1943, BTNP; Hardin Co., Teel Rd., Lance Rosier Unit, BTNP; Newton Co., Bleakwood, Lewis properties.]

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