

On Two Varieties of *Ficus hispida* L.f. (Moraceae) in Thailand

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ABSTRACT.- Two varieties of *Ficus hispida* L.f.; *F. hispida* L.f. var. *hispida* and *F. hispida* L.f. var. *badiostrigosa* Corner. At first sight the two varieties appear the same. But some characteristics have differences; branches, figs and others. As illustrated.

KEY WORDS.- Variety, *Ficus hispida*, Thailand

It was during May 2002 that I had a chance to visit the Khitchakoot National Park in Chanthaburi Province (lat. 13°00'-14°00'; long. 101°35'-102°05') and luckily found some Fig species which at first sight I considered to be a *Ficus hispida* L.f.. Although many character differences were detected at that time, but unfortunately no collection had been made due to lack of a collecting licence in that Park. In December 2003, I had been to the Khao Ang Reu Nai Wildlife Sanctuary with the main objective to survey the fig diversity there for our co-operative research project. Here again, I found this particular fig species and was allowed to take some herbarium specimens for further studies. Upon careful studies in the laboratory, I could at last identify it as *Ficus hispida* L.f. var. *badiostrigosa* Corner, consulting primarily the monumental works of Berg (2004), Corner (1960, 1961, 1965), King (1887, 1888) and Ridley (1924).

Ficus hispida L.f., Suppl. pl. 442 (1781)
_ *F. symphytifolia* Spreng., Syst. iii 784 (1788) _ *F. scabra* Jacq., Hort. Schoenb. iii 36 (1798) _ *F. oppositifolia* Willd., Sp. Pl. iv 1151 (1798) _ *F. mollis* Willd., Mem. Acad. Berl. 103 (1798) _ *F. daemona* (Koen.) Vahl, Enum. ii 198 (1806) _ *F. fecuda* Blume,

Cat. Gew. Buitenz. 36 (1823) _ *Gonusuke scabra* (Jacqu.) Raf., Sylva Tellur. 58 (1838) *G. hispida* (L.f.) Raf., Sylva Tellur. 58 (1838) *G. demonum* (Koen.) Raf., Sylva Tellur. 58 (1838) _ *Sycomorpha roxburghii* Miq., Ann. Sc. Nat. Ser. III. i. 35 (1844).

Shrub to small tree, bark smooth, gray to dark gray or brown to dark brown, all the young parts more or less pubescent to hispid. Leaves elliptic to ovate or to oblong, 15 - 28 x 7 - 12 cm in size, opposite and or alternate, upper surface pubescent to hispid, lower surface hispid, apex acute to caudate, margin entire to semi-serulate, base cordate to obtuse; lateral vein 5 - 7 pairs, the basal pair up to 1/7-1/6 the length of the lamina; petiole stout, 2 - 3 cm long, densely hispid-pubescent. Stipules 2, ovate-lanceolate, pubescent in external, glabrous in internal. Fig pairs on axile or fascicles on trunk and or on a stolon hanging from the base of the trunk, globose to sub-globose or to sub-pyriform, lateral bracts or ridge, 2 - 4 cm in diameter when fresh, 1 - 2.3 in diameter when dry, hispid, apex concave, ostiole cover with apical bract, yellow to yellow-brown when ripe, basal bract 3; peduncle 0.7 - 2 cm long; male flowers pedicellate, numerous near the apex of receptacle, perianths saccate, stamen 1, anther broad, filament short; gall flower pedicellate, with no obvious perianth, ovary globular, smooth, style short, sub-terminal, stigma dilated; female flower pedicellate, ovary globular,

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smooth, style long, lateral, hairy on upper half of style, stigma cylindrical tubular.

Corner (1965) classify to 3 varieties of *Ficus hispida* L.f.; *F. hispida* L.f. var. *hispida*, *F. hispida* L.f. var. *rubra* Corner and *F. hispida* L.f. var. *badiostrigosa* Corner. In Thailand found 2 varieties; *F. hispida* L.f. var. *hispida* and *F. hispida* L.f. var. *badiostrigosa* Corner were know to occur.

Key to the varieties of *F. hispida* L.f. in Thailand

1a. Figs on fascicle from main stem, branch or leaf axile, covered by pale hairs.....*Ficus hispida* L.f. var. *hispida*

1b. Figs on stolon which creeping on the ground or under ground (geocarpic figs), covered by dark brown hairs.....*Ficus hispida* L.f. var. *badiostrigosa* Corner

Ficus hispida L.f. var. *hispida* _Figure 1., 3., 4.

The variety is characterised by white or gray pubescent to hispid on shoot and young leaves, Figs in pairs from the axils of leave or in fascicles from shortened tuberenlate branches from the stem or in pairs or fascicle on elongate from large branch or stem sometime fascicle from base of stem; receptacle sub-globose to sub-pyriform 2.5 - 4 cm. in diameter when fresh, lateral bract usually, yellow when ripe.

NORTHERN

Chiang Mai [Chiang Dao, Khantchai 395 (BKF); Chom Thong, F. Konta et al. 3909 (BKF); Doi Inthanon, C. Phengkai et al. 6748 (BKF), M.N. Tamura T-60067 (BKF), S. Mitsuta et al. T- 45368 (BKF), T. Koyama et al. 15427 (BKF); Doi Suthep, TDBS 4454 (BKF); Fang, H. Koyama et al. T-33363 (BKF); Huey Kaew Arboretum, N. Fukuoka T-62003, R. Pooma 512 (BKF); Mae Wang, F. Konta et al. 4145 (BKF)]

Lampang [Doi Khun Dhan National Park, J.F. Maxwell 94-1245 (BKF)]

Mae Hong Son [Doi Padeng, T. Shimizu et al. T-20013 (BKF)]

Pitsanulok [Tung Salaeng Laung National

Park, FTP 715 (BKF)]

Tak [Ban Musoe, G. Murata et al. T- 16739, T-16756 (BKF); Lan Sang National Park, K Setbubpa 017 (BKF), Mae Tor, Y. Paisooksantivatana 1233-83(BK)].

NORTHEASTERN

Sakon Nakhon [Phu phan National Park, S. Mitsuta et al. T-50375 (BKF)].

SOUTHWESTERN

Phetchaburi [Keang Krachan, M.F. Newman et al. 1094,1116(BKF)]

Kanchanaburi [Huay Bankau, C.F. van Beusekom et al. 3615 (BKF); Pompee village, C.F. van Beusekom et al. 115 (BKF); Tham Pha, C. Pengklai 343 (BKF); Thong Pha Phum, Th. w. et al. 45 (BKF)]

Prachuap Khiri Khan [Huai Yang Waterfall, C.F. van Beusekom et al. 2746 (BKF); Thap Sakae, H. Koyama et al. T-34087 (BKF)]

Uthai Thani [Huay Haeng, Kasem 331 (BK)]

CENTRAL

Bangkok [Khlong San, J.F. Maxwell 71-622 (BK), Smith 344(BK)]

Lop Buri [Sup Champa, G. Murata et al. T-50963, T- 50911; Wang Kan Luang, G. Murata et al. T- 51024, T-51017]

Saraburi [Phu Kea, Dee 181(BKF)]

EASTERN

Roi Et [Suwannaphum, Yingyong P. et al. 1073-82 (BK)]

PENINSULAR

Krabi [Kao Papi, A.F.G. Kerr 18902 (BK)],

Satun [Tarutao, A.F.G. Kerr 14189 (BK)]

Songkhla [Had Yai, Hamilton et al. 86 (BKF)]

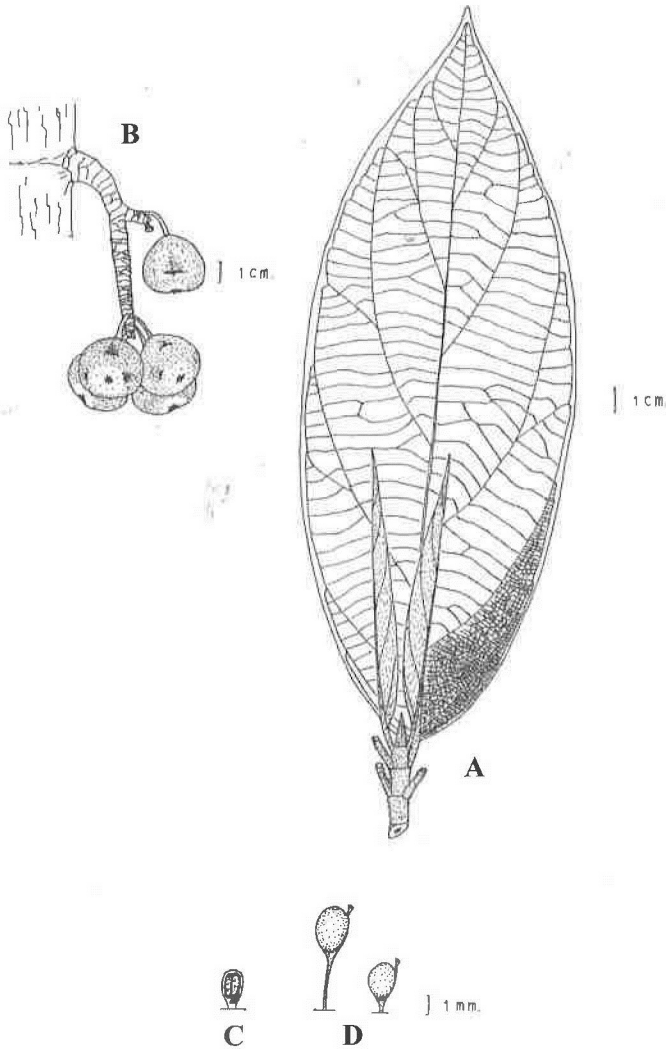


Figure 1 *Ficus hispida* L.f. var. *hispida*, draw from herbarium specimen of Bhanu.160803-1(THNHM); A. Leafy branch; B. Figs branch; C. Male flower; D. Gall flower.

Narathiwat [Waeng, Bhanu.160803-1(THNHM)]

Distribution. Ceylon India and south China to Malaya (absent from the southern part of the Malay Peninsular) Andaman Isl. Sumatra Java Anamba and Natuna Isl. Borneo (rare) Celebes (South-east) Lesser Sunda Isl. Timor Tenimber Isl. Queensland Papua.

Ecology. Evergreen forest, Mixed deciduous forest and pioneer in secondary forest.

Vernacular. Ma Dau Plong (มะเดื่อปล้อง)

Ficus hispida L.f. var. *badiostrigosa* Corner _ Figure 2., 5., 6.

The variety is characterised by brown pubescent to hispid on shoot and young leaves, Figs on the stolon with hanging from base stem reaching to or penetrating the soil; receptacle sub-globose to globose 2 - 2.5 cm in diameter when fresh, sometime pustule and longitudinal ride, yellow-brown when ripe.

NORTHERN**Chiang Mai** [Mae Rim, R. Pooma 271 (BKF)]

G. Marata et al. T-17431 (BKF), T-17420 (BKF); Koh Kut, C.F. van Beusekom et al. 3218 (BKF)]

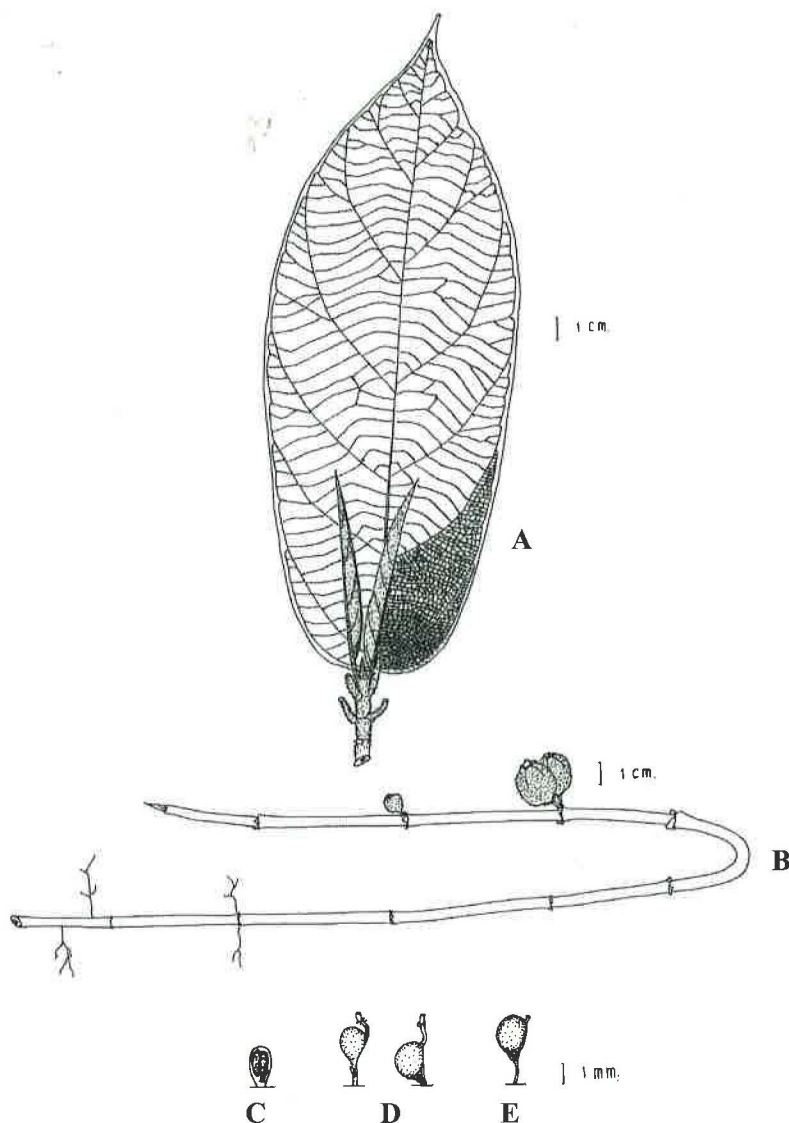
SOUTHEASTERN**Chachoengsao** [Tha Takeab, Bhanu.2002-0420 (THNHM)]**Chon Buri** [Ban Chang, D.J. Collins 1725 (BK); Khao Khico, J.F. Maxwell 76-382 (BK); Khao Khieo Open Zoo, C. Phengkklai et al. 12622 (BKF)]**Trat** [Koa Chang, A.F.G. Kerr 9281 (BK),**Distribution.** Annam Laos Tonkin.**Ecology.** In evergreen forest or pioneer in secondary forest.**Vernacular.** Ma Dau Plong Din (มะเดื่อปล้องดิน)

Figure 2 *Ficus hispida* L.f. var. *badiostrigosa* Corner, draw from herbarium specimen of Bhanu. 2002-0420(THNHM); A. Leafy branch; B. Figs branch; C. Male flower; D. Female flower; E. Gall flower.



Figure 3 Photograph on leafy branch of *Ficus hispida* L.f. var. *hispida*



Figure 4 Photograph on figs branch of *Ficus hispida* L.f. var. *hispida*



Figure 5 Photograph on leafy branch of *Ficus hispida* L.f. var. *badiostrigosa* Corner



Figure 6 Photograph on figs branch of *Ficus hispida* L.f. var. *badiostrigosa* Corner

Table 1 Summary of morphological difference between *Ficus hispida* L.f. var. *hispida* and *F. hispida* L.f. var. *badiostrigosa* Corner

characteristic	<i>F. hispida</i> var. <i>hispida</i>	<i>F. hispida</i> var. <i>badiostrigosa</i>
Color of bark	grey	Brown to dark brown
Young branch covering	white hair	dark brown hair
Figs	On leaf axil, fascicle from stem or short hanging fig branch from stem	On long stolon with hanging from base main stem
Receptacle		
Size	2.5 - 4 cm in diameter when fresh	2-2.5 cm in diameter when fresh
Form	sub-globose to sub-pyriform	sub-globose to globose
Lateral bract	usually	none
Covering	white hair	brown to dark brown hair
Color when ripe	yellow	yellow-brown

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