



RESEARCH ARTICLE

HIGHLY EXTENSIVE HEIGHT OF *CONYZA CANADENSIS* IN UTTAR PRADESH

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ABSTRACT

The present study focuses on Family Asteraceae is reinvestigated in various districts of Uttar Pradesh in which *Conyza canadensis* showing highly extensive length about 280 cm in Gorakhpur district. This species showing length about 15-90 cm in Flora of British India, 90 cm in Flora of Upper Gangetic Plain, 30-70 cm in Flora of Madhya Pradesh and 15-90 cm in Flora of India. During the floristic investigation this species are collected from different regions of Uttar Pradesh. This species was identified on the basis of morphological, anatomical and floral characters. A taxonomic account of *C. canadensis* has been given along with their current valid name, flowering and fruiting, habit, locality and specimen voucher number.

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INTRODUCTION

Gorakhpur is located between latitude 24<sup>o</sup> 46' N and longitude 83<sup>o</sup> 22' E in U. P and 100- 500 m above sea level. The district covers an area of 7,483.8 square kilometer (2889.5 sq mi). The climate of this districts in humid subtropical with annual rainfall varying between 60- 200 mm. The average maximum and minimum temperature 48<sup>o</sup> C- 02<sup>o</sup> C respectfully. The *Conyza canadensis* is cosmopolitan and common in the temperate and tropical region. This specimen is well documented in Hooker (1881), Duthie (1903), Koch Minna (1930), Cronquist (1955), Leppik (1960), Rajashekkhara and Razi (1977), Mukherjee (1984), Misra and Verma (1992), Misra (1992), Verma *et al.*, (1993), Singh (1994), Hajra *et al.*, (1995), Singh (1998), Khanna *et al.*, (1999), Pandey *et al.*, (1999), Khan (2003), Siddiqui (2004), Ranjan (2005), Narain and Lata (2004, 2006), Funk and Susanna (2009), Singh *et al.*, (2010) and Bhati *et al.*, (2014).

MATERIAL AND METHOD

Present study was based on field survey of Gorakhpur district, carried out in different districts of Uttar Pradesh such as Jaunpur, Allahabad, Varanasi, Kaushambi, Mirzapur, Chandauli, Pratapgarh, Kanpur, Raibareli, Chitrakoot,

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Lucknow, Sonbhadra, Pilibhit, Lakhimpur Khiri, Bahraich, Sitapur, Rampur, Agra, Mathura, and Hathras. During our field survey of these districts *Conyza canadensis* were collected and captured the photograph. Identification was done by morphology, anatomy and floral characters as well as with the help of floras and herbarium specimens. Collected specimen was deposited in Duthie Herbarium, Department of Botany, University of Allahabad.

RESULTS

*Conyza canadensis* showing highly extensive length about 280 cm (9.5 feet) Churk locality of Gorakhpur district (Figure-1). But this species showing length about 15-90 cm (6 inch-3 feet) in Flora of British India, 90 cm (3 feet) in Flora of Upper Gangetic Plain, 30-70 cm (12 inch-2.5 feet) in Flora of Madhya Pradesh and 15-90 cm (6 inch-3 feet) in Flora of India. *Conyza canadensis* Less., Syn. Gen. Comp. 203. 1832, non L. 1753. Type *C. chiliensis* spreng. (type. Cons.) *C. canadensis* (L.) cronq. In Bull. Torrey Bot. club 79: 632. 1943. *Erigeron canadensis* L., Sp. Pl. 863. 1753; Hook. F., Fl. Brit. India 3: 254. 1881; Duthie, Flora of Upper Gangetic Plain 1: 446. 1903; Hazra, Fl. of India : 12: 105. 1995. Herbs, erect, annual, 280 cm tall. Leaves linear or linear- lanceolate, entire or toothed, petiolate, 2-5 cm. Heads in leafy panicle, yellowish, ca 3 mm in diam. Involucral bracts 2-3 seriate, outer bracts linear, acute, ca 1.5 mm long, inner bracts filiform, ca 3 mm long. Disc florets tubular, 5- fid, ca 2.5 long. Achene glabrous, ca 1 mm long. Pappus dirty white, ca 2.2 mm long.

Field No. - Gorakhpur: 27104  
Fl. and Fr. - November- May

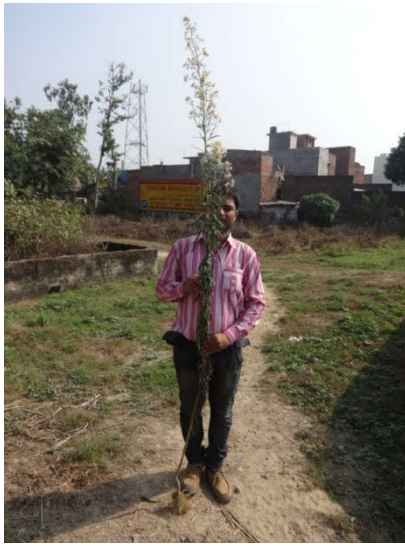


Figure 1. Extensive length of *Conyza canadensis*

## DISCUSSION AND CONCLUSION

Systematic investigation of *Conyza canadensis* growing throughout districts of Uttar Pradesh. The Flora of British India, Flora of Upper Gangetic Plain, Flora of India and Flora of Madhya Pradesh shows all these lengths while in my reinvestigation show 280 cm height in district Gorakhpur. We collected *Conyza canadensis* from different districts of Uttar Pradesh approximately showing 20- 130 cm height. But this type of variation did not found in any field of survey.

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