HOST PLANT AND NECTAR PLANTS OF THE ZEBRA SKIPPER ERNSTA ZEBRA (LEPIDOPTERA: HESPERIIDAE) IN RAJASTHAN, INDIA

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Ernsta zebra (Zebra Skipper) is distributed in parts of Pakistan and Rajasthan, India (Tshikolovets & Pages, 2016; Panwar, 2020). Other than the restricted distribution, no information is available on the host plants, life cycle stages, and nectar Between plants. 2014 and 2023 opportunistic surveys were undertaken to gather data on the species.

On 8th November 2014, an adult female of the Zebra Skipper was seen ovipositing on the underside of a leaf of Melhania futtevporensis Munro Mast ex (Malvaceae). in Sagwara, Dungarpur (Rajasthan). After a few days, caterpillars of the Zebra Skipper were seen feeding on the leaves of M. futteyporensis, confirming that it is the larval host plant. During the study period, different life cycle stages of the butterfly were observed on the plant. Also, the caterpillars were collected and raised on the plant's leaves (Figures 1a to 11). *M. futteyporensis* (Pic 2a and 2b) is endemic to the Indian subcontinent and it is also among the threatened plants of India (Barik *et al.*, 2018). It is a small shrub with simple, broad ovate to lanceolate and serrated leaves, and yellow flowers, growing in arid to semi-arid regions in gravelly soil to rocky terrain.

During the survey period, the nectar plants of the Zebra Skipper were also recorded. The skipper was observed nectaring upon a wide range of plants including 23 species belonging to 15 families (Table 1; Pic 3 a to 3w). The butterfly was observed to be on the wing in January, February, March, July, August, September, October and November suggesting that there are at least two and perhaps three generations during the year. It is unusual that a butterfly with such an extended flying period has been overlooked for so long.

S. No.	Family	Scientific Name	Common Name	Habit
1	Acanthaceae	Justicia procumbens L.	Water Willow	Herb

Table 1: List of Nectar Plants of the Zebra Skipper

2		Digera muricata (L.) Mart.	False Amaranth	Herb
	Amaranthaceae			
3	- Interantinaceae	Celosia argentea L.	Plumed Cockscomb	Herb
4	Apocynaceae	Wrightia antidysenterica (L.) R.Br.	Snowflake	Shrub
5	Asteraceae	Cyanthillium cinereum (L.) H.Rob.	Little Ironweed	Herb
6		Tagetes erecta L.	Marigold	Herb
7		Tridax procumbens L.	Coatbuttons	Herb
8	Cucurbitaceae	Cucumis melo L.	Melon	Climber
9	Euphorbiaceae	Jatropha integerrima Jacq.	Spicy Jatropha	Shrub
10	Fabaceae	<i>Cajanus scarabaeoides</i> (L.) Thouars	Showy Pigeon Pea	Shrub
11		Crotalaria medicaginea Lam.	Trefoil Rattlepod	Herb
12	- Lamiaceae	Mesosphaerum suaveolens (L.) Kuntze	American Mint	Herb
13		Ocimum basilicum L.	Basil	Herb
14		Tectona grandis L.f.	Teak	Tree
15	- Malvaceae	<i>Melhania futteyporensis</i> Munro ex Mast	Fatehpur Melhania	Shrub
16		Sida cordifolia L.	Bala	Herb
17		Waltheria indica L.	Boater Bush	Herb
18	Nyctaginaceae	Boerhavia diffusa L.	Common Hogweed	Herb
19	Passifloraceae	Turnera ulmifolia L.	Yellow Alder	Herb

20	Rhamnaceae	Ziziphus mauritiana Lam.	Indian Jujube	Small tree
21	Rubiaceae	Spermacoce articularis L.f.	False Buttonweed	Herb
22	Verbenaceae	Lantana camara L.	Lantana	Shrub
23	Vitaceae	<i>Causonis trifolia</i> (L.) Mabb. & J.Wen	Fox Grape	Liana

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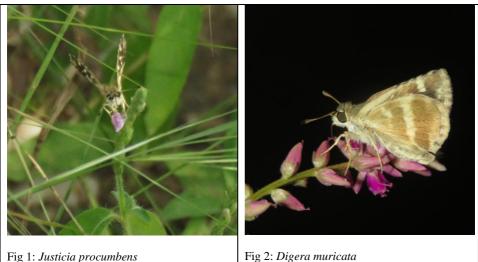






Fig 3: Celosia argentea

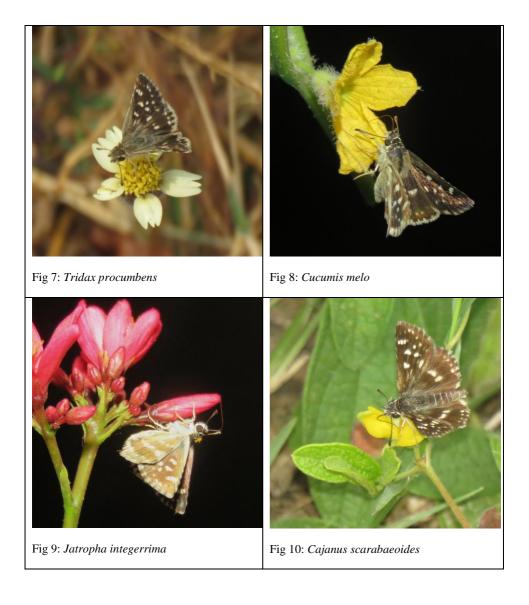
Fig 4: Wrightia antidysenterica



Fig 5: Cyanthillium cinereum



Fig 6: Tagetes erecta



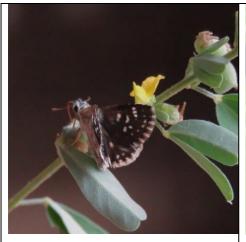


Fig 11: Crotalaria medicaginea



Fig 12: Mesosphaerum suaveolens

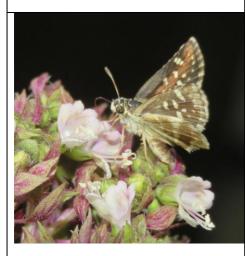


Fig 13: Ocimum basilicum



Fig 14: Tectona grandis

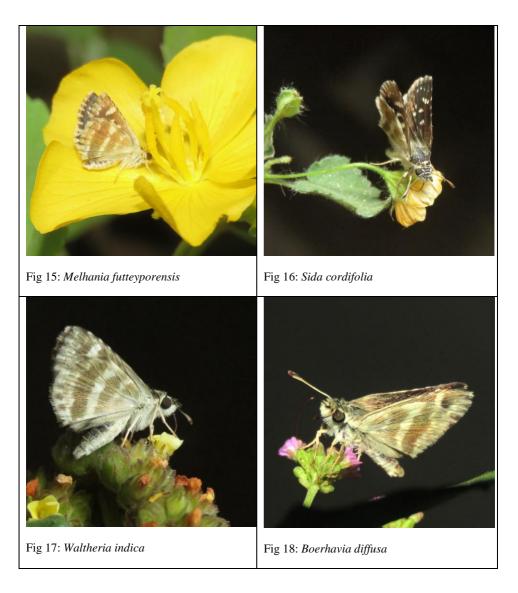




Fig 19: Turnera ulmifolia

Fig 20: Ziziphus mauritiana



Fig 21: Spermacoce articularis



Fig 22: Lantana camara



Host Plants of Zebra Skipper



Fig 1: Melhania futteyporensis

Fig 2: Melhania futteyporensis

Life cycle of Zebra Skipper

