**Supp. Table S3**. Currently recognized *Dermacentor* species and their zoonotic vector status

| ***Dermacentor* species** | **Zoonotic vector status**a | **Commentsb** |
| --- | --- | --- |
| 1 – *D. albipictus* (Packard, 1869) | 1c | Because this is a one-host tick, the various life stages associated with particular hosts are not separately recorded (Guglielmone et al. 2014). |
| 2 – *D. andersoni* Stiles, 1908 | 1c |  |
| 3 – *D. asper* Arthur, 1960 (provisional) | 0e | Insufficient data for analysis. Only the male adult has been described. |
| 4 – *D. auratus* Supino, 1897 | 1c | *D. atrosignatus* Neumann, 1906 is a junior synonym of *D. auratus* Supino, 1897 (Apanaskevich et al. 2021). The larval stage has not been described. |
| 5 – *D. bellulus* (Schulze, 1935) | 0d |  |
| 6 – *D. circumguttatus* Neumann, 1897 | 0d | Only male and female adults have been described. |
| 7 – *D. compactus* Neumann, 1901 | 0d |  |
| 8 – *D. confragus* (Schulze, 1933) (provisional) | 0e | Only male and female adults have been described. |
| 9 – *D. dispar* Cooley, 1937 | 0e | Insufficient data for analysis. Only the male and female adults have been described. |
| 10 – *D. dissimilis* Cooley, 1947 | 0e | The larval stage has not been described. |
| 11 – *D. everestianus* Hirst, 1926 | 0e |  |
| 12 – *D. falsosteini* n. sp. Apanaskevich, Apanaskevich & Nooma | 0d | Recently described species (Apanaskevich et al. 2021). Only male and female adults have been described. |
| 13 – *D. filippovae* Apanaskevich & Apanaskevich, 2015a | 0e | Only male and female adults have been described. |
| 14 – *D. halli* McIntosh, 1931 | 0e |  |
| 15 – *D. hunteri* Bishopp, 1912 | 0d |  |
| 16 – *D. imitans* Warburton, 1933 | 0d | Only male and female adults have been described. |
| 17 – *D. kamshadalus* Neumann, 1908 | 0e | The larval stage has not been described. |
| 18 – *D. laothaiensis* Apanaskevich, Chaloemthanetphong & Vongphayloth, 2019 | 0e | Only male and female adults have been described. |
| 19 – *D. latus* Cooley, 1937 | 0d | Only male and female adults have been described. |
| 20 – *D. limbooliati* Apanaskevich & Apanaskevich, 2015b | 0e | Only male and female adults have been described. |
| 21 – *D. marginatus* (Sulzer, 1776) | 1c |  |
| 22 – *D. montanus* Filippova & Panova, 1974 | 0e |  |
| 23 – *D. nitens* Neumann, 1897 | 0d | Because this is a one-host tick, the various life stages associated with particular hosts are not separately recorded (Guglielmone et al. 2014). |
| 24 – *D. niveus* Neumann, 1897 | 0d |  |
| 25 – *D. nuttalli* Olenev, 1929 | 1c |  |
| 26 – *D. occidentalis* Marx, 1892 | 1c |  |
| 27 – *D. panamensis* Apanaskevich & Bermudez, 2013 | 0e |  |
| 28 – *D. parumapertus* Neumann, 1901 | 0d |  |
| 29 – *D. pasteuri* n. sp. Apanaskevich, Vongphayloth, Jeangkhwoa & Chaloemthanetphong, 2020 | 0e | Recently described species (Apanaskevich et al. 2020). Only male and female adults have been described. |
| 30 – *D. pavlovskyi* Olenev, 1927 | 0e |  |
| 31 – *D. pomerantzevi* Serdjukova, 1951 | 0e | Insufficient data for analysis. Only the female adult has been described. |
| 32 – *D. pseudocompactus* Apanaskevich & Apanaskevich, 2016 | 0e | Only the male adult has been described. |
| 33 – *D. raskemensis* Pomerantzev, 1946 | 0d |  |
| 34 – *D. reticulatus* (Fabricius, 1794) | 1c |  |
| 35 – *D. rhinocerinus* (Denny, 1843) | 0d |  |
| 36 – *D. silvarum* Olenev, 1931 | 1c |  |
| 37 – *D. similis* n. sp. Lado, Glon & Klompen, 2021 | 1c | We follow Lado et al. (2021) who hypothesize that the populations of the species traditionally known as *D. variabilis* should be split into two distinct species. They propose that populations in the central-eastern U.S. and along the Pacific U.S. states and intermountain regions belong to a new species, *D. similis* n. sp., and that the central-eastern populations belong to *D. variabilis* (Say, 1821). |
| 38 – *D. sinicus* Schulze, 1931 | 0e |  |
| 39 – *D. steini* Schulze, 1933 | 0d | Only male and female adults have been described. |
| 40 – *D. taiwanensis* Sugimoto, 1935 | 0e |  |
| 41 – *D. tamokensis* Apanaskevich & Apanaskevich, 2016 | 0e | Only male and female adults have been described. |
| 42 – *D. tricuspis* (Schulze 1933) n. comb., n. stat. | 0d | The recently reinstated species *D. tricuspis* (Schulze, 1933) n. comb., n. stat. is the correct name for the species previously identified as *D. atrosignatus* Neumann, 1906 *sensu* Wassef & Hoogstraal, 1984 (Apanaskevich et al. 2021). Only male and female adults have been described. |
| 43 – *D. ushakovae* Filippova & Panova, 1987 | 0e |  |
| 44 – *D. variabilis* (Say, 1821) | 1c | See comment above for *D. similis*. |

Accepted species are that are currently or provisionally accepted as valid, based on its inclusion in "The hard ticks of the world" (Guglielmone et al. 2014), as updated in 2020 (Guglielmone et al. 2020), and including newly proposed species, *D. pasteuri* (Apanaskevich et al. 2020), *D. falsosteini* n. sp. (Apanaskevich et al. 2021), and *D. similis* n. sp. (Lado et al. 2021).

a Zoonotic vector status from the review article by Mathison & Sapp (2021): vector = 1, not a vector = 0.

b Stages described for each *Dermacentor* species are from Table 1 in Guglielmone et al. (2020).

c Human infestation is frequent (Guglielmone et al. 2020).

d Human infestation is rare or sporadic (Guglielmone et al. 2020).

e Human infestation is unknown or unconfirmed (Guglielmone et al. 2020).

f Hosted by *Homo sapiens* (Apanaskevich et al. 2021), but infestation is assumed to be uncommon.

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