

Table 1. Checklist of tick species of Pakistan. — cont'd

	Species	Authors and year of publication	Host animals	References
Superfamily Ixodoidea		Birula 1894, Leach 1815, Banks 1894		
Family Argasidae		Canestrini 1890		
Genus Argas		Latreille 1795		
	<i>abdussalami</i>		Poultry	Ghosh <i>et al.</i> 2007, Iqbal 1971, Hoogstraal & McCarthy 1965
	<i>persicus</i>		Poultry	Abbasi <i>et al.</i> 2017, Ghosh <i>et al.</i> 2007, Kakarsulemankhel 2011, Oken 1818, Ramzan <i>et al.</i> 2008, Rafique <i>et al.</i> 2015
Synonyms	<i>Rhynchoprion persicus</i>			Oken 1818
	<i>Argas mauritanus</i>			Guérin-Méneville 1844
	<i>Argas firmatus</i>			Neumann 1896
	<i>Argas persicus dissimiles</i>			Oken 1818
	<i>reflexus</i>		Poultry, Fowl	Kaiser & Hoogstraal 1964, Ghosh <i>et al.</i> 2007, Fabricius 1794, WHO 1976
Synonyms	<i>Acarus reflexus</i>			Fabricius 1794
	<i>Acarus columbarum</i>			Shaw 1793
	<i>Acarus marginatus</i>			Fabricius 1794
	<i>Rhynchoprion columbae</i>			Hermann 1804
	<i>Ixodes espagnol</i>			Brebisson 1827
	<i>Ixodes hispanus</i>			Brebisson 1827
	<i>Argas reflexus</i>			Rondelli 1930
	<i>vespertilionis</i>		Poultry	Latreille 1796, Ali 1986, Murray 1877, Kaiser & Hoogstraal 1964, Rafique <i>et al.</i> 2015
Synonyms	<i>Argaspipistrellae</i>			Audoin 1832
Genus Ornithodoros		Koch 1844		
	<i>thokozani</i>	Mégnin 1882	Poultry, Donkey	Razzak & Shaikh 1969
Family Ixodidae		Murray 1877		
Genus Amblyomma		Koch 1844		
	<i>pomposum</i>		Buffalo, Cattle, Goat, Sheep	Donitz 1909, Rehman <i>et al.</i> 2004
Synonyms	<i>Amblyomma nocens</i>			
	<i>Amblyomma superbum</i>			
	<i>Amblyomma variegatum nocens</i>			
	<i>Amblyomma variegatum pomposum</i>			

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	Species	Authors and year of publication	Host animals	References
Genus <i>Amblyomma</i>				
	<i>variegatum</i>		Cattle, Buffalo	Fabricius 1794, Fuller 1899, Perveen 2011, Kakersulemankhel 2011, Shah <i>et al.</i> 2015, Razzak & Shaikh 1969
	<i>Acarus variegatus</i>			Fabricius 1798
	<i>Amblyomma elegans</i>			Guérin-Méneville 1844
	<i>Amblyomma variegatum variegatum</i>			
	<i>Amblyomma variegatus</i>			Fabricius 1798
Synonyms	<i>Amblyomma venustum</i>			
	<i>Haemalastor elegans</i>			Guérin-Méneville 1844)
	<i>Hyalomma venustum</i>			
	<i>Ixodes elegans</i>			Guérin-Méneville 1844
	<i>Ixodes variegates</i>			Fabricius 1798
Genus <i>Boophilus</i> Curtice 1891				
	<i>sharifi</i>		Cattle Buffalo	Kishida 1939, Ghosh <i>et al.</i> 2007, Kishida & Nakamura 1939
Synonyms	<i>Uroboophilus sharifi</i>			Minning 1934
	<i>annulatus</i>		Sheep, Goat, Buffalo, Cow	Say 1821, Ghosh <i>et al.</i> 2007, Rana <i>et al.</i> 2014, Kakarsulemankhel 2010, Riaz & Tasawar 2017, Sajid <i>et al.</i> 2007
	<i>Ixodes annulatus</i>			Say 1821
	<i>Haemaphysalis rosea</i>			Koch 1844a
	<i>Ixodes indentatus</i>			Gamee 1869
	<i>Ixodes calcaratus</i>			Birula 1894
Synonyms	<i>Boophilus balcanicus</i>			Minning 1934
	<i>Boophilus congolensis</i>			Minning 1934
	<i>Boophilus palestinensis</i>			Minning 1934
	<i>Boophilus schulzei</i>			Minning 1934
Genus <i>Dermacentor</i> Koch 1844a				
	<i>andersoni</i>		Cattle, Sheep	Duges 1834, Stiles 1908, Karim <i>et al.</i> 2017
Synonyms	<i>Dermacentor venustus</i>			Banks 1908
	<i>circumguttatus</i>		Buffaloes, Cattle	Neumann, 1897, Rehman <i>et al.</i> 2004
	<i>Amblyocentor circumguttatus</i>			
Synonyms	<i>Dermacentor circumguttatus circumguttatus</i>			
	<i>Dermacentor circumguttatus cunhasilvai</i>			
	<i>marginatus</i>		Dog, Cattle, Goat, Horse, Sheep	Sulzer 1776, Ghosh <i>et al.</i> 2007, Uzakov 1964
	<i>Acarus marginatus</i>			Sulzer 1776
	<i>Ixodes marmoratus</i>			Risso 1826
	<i>Dermacentor dentipes</i>			Koch 1844a
	<i>Dermacentor parabolicus</i>			Koch 1844a
Synonyms	<i>Dermacentor gynaeoides</i>			Olenev 1927
	<i>Dermacentor longicoxalis</i>			Olenev 1927
	<i>Dermacentor rotundicoxalis</i>			Olenev 1931b, Olenev 1929a
	<i>Dermacentor lacteolus</i>			Schulze 1933
	<i>Dermacentor antrorum</i>			Reznik 1950
	<i>raskimensis</i>		Horses, Deer, Cattle	Shah <i>et al.</i> 2015, Pomerantsev 1946

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	Species	Authors and year of publication	Host animals	References
Genus <i>Dermacentor</i>		Koch 1844a		
	<i>rhinocerinus</i>		Buffaloes, Cattle	Denny 1843
Synonyms	<i>Amblyocentor rhinocerinus</i>			
	<i>Amblyomma rhinocerinus</i>			
	<i>Dermacentor rhinocerinus otis</i>			
	<i>Dermacentor rhinocerinus schillingsi</i>			
	<i>Dermacentor rhinocerotis arangis</i>			
	<i>Dermacentor rhinocerotis permaculatus</i>			
	<i>Dermacentor rhinocerotis rhinocerotis</i>			De Geer 1778
	<i>Ixodes rhinocerinus</i>			
Genus <i>Haemaphysalis</i>		Koch 1844		
	<i>aciculifer</i>		Buffalo, Cattle	Warburton 1913, Reznik 1950
Synonyms	<i>Haemaphysalis aciculifer aciculifer</i>			
	<i>bispinosa</i>		Horse	Neumann 1897, Risso 1826
Synonyms	<i>Haemaphysalis bispinosa bispinosa</i>			
	<i>punctata</i>		Cattle, Sheep, Goat, Horse	Hasselquist 1762, Hoogstraal & Varma 1962, Neumann 1897
	<i>flava</i>		Sheep	Neumann 1897
Synonyms	<i>Haemaphysalis flava armata</i>			
	<i>Haemaphysalis flava flava</i>			Neumann 1897
	<i>Haemaphysalis watanabei</i>			
	<i>houyi</i>		Buffalo, Cattle	Nuttall & Warburton 1915, Kamensky 1928
	<i>Haemaphysalis calcarata houyi</i>			
	<i>kashmirensis</i>			Hoogstraal & Varma 1962
	<i>parmata</i>		Buffalo, Cattle	Neumann 1905
	<i>sulcata</i>		Sheep	Canestrini & Fanzago 1878, Canestrini & Fanzago 1978
	<i>Ixodes viperarum</i>			Koch 1844b
	<i>Herpetobia sulcata</i>			Canestrini 1890
	<i>Haemaphysalis nicollei</i>			Larrousse 1925
	<i>Haemaphysalis angorensis</i>			Schulze & Schlottke 1927
	<i>Haemaphysalis cholodkovskyi</i>			Olenev 1928
	<i>Haemaphysalis montana</i>			Kamensky 1928
	<i>Haemaphysalis sewelli</i>			Sharif 1928
	<i>Haemaphysalis montana</i>			Pospelova-Shtrom 1935a, Pospelova-Shtrom 1935b
	<i>Haemaphysalis cretica</i>			Senevet & Caminopetros 1936
	<i>Haemaphysalis beneditoi</i>			Gil Collado 1938
	<i>Haemaphysalis recta</i>			Oswald 1941
	<i>Hyalomma sulcata</i>			Mamikonyan 1950, Airapetyan <i>et al.</i> 1960
	<i>Haemaphysalis cretica</i>			Feldman-Muhsam 1952
Genus <i>Hyalomma</i>		Koch 1844a		
	<i>anatolicum anatolicum</i>		Buffalo, Sheep, Goat, Cattle, Dog	Linnaeus 1758, Iqbal 1971, Khalid <i>et al.</i> 1991, Ahmad 1991, Durrani 1992, Ahmad <i>et al.</i> 2012
Synonyms	<i>Hyalomma depressum</i>			Schulze 1919
	<i>Hyalomma cicatricosum</i>			Schulze & Schlottke 1930

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Genus <i>Hyalomma</i>		Koch 1844a		
	<i>anatolicum</i> (Anadolu Kenesi)		Cattle, Sheep, Goat, Camel, Horse	Koch 1844b, Donitz 1905, Ramzan <i>et al.</i> 2020
Synonyms	<i>Hyalomma aegyptium aegyptium brunnipes</i>			
	<i>Hyalomma aegyptium excavata</i>			
	<i>Hyalomma aegyptium excavatum</i>			
	<i>Hyalomma aegyptium mesopotamium</i>			
	<i>Hyalomma aegyptium ornatipes</i>			
	<i>Hyalomma anatolicum anatolicum</i>			
	<i>Hyalomma armeniorum</i>			
	<i>Hyalomma depressum</i>			
	<i>Hyalomma detritum albipictum ornatipes</i>			
	<i>Hyalomma lusitanicum depressum</i>			
	<i>Hyalomma marginatum balcanicum brunnipes</i>			
	<i>Hyalomma marginatum marginatum brunnipes</i>			
	<i>Hyalomma mesopotamium</i>			
	<i>Hyalomma pavlovskyi</i>			Schulze & Schlottke 1929
	<i>Hyalomma pusillum</i>			
	<i>Hyalomma pusillum alexandrinum</i>			
	<i>Hyalomma pusillum ornatipes</i>			
	<i>Hyalomma pusillum pusillum</i>			
	<i>Hyalomma savignyi armeniorum</i>			
	<i>Hyalomma savignyi exsul</i>			
	<i>Hyalomma savignyi mesopotamium</i>			
	<i>Hyalomma savignyi pusillum</i>			
Synonyms	<i>aegyptium</i>		Cattle	Linnaeus 1758
	<i>Acarus aegyptius</i>			Linnaeus 1758
	<i>Acarus testudinis</i>			Hasselquist1762
	<i>Cynorhaestes aegyptius</i>			Linnaeus 1758
	<i>Hyalomma aegyptium syriacum</i>			
	<i>Hyalomma aegyptius</i>			Linnaeus, 1758
	<i>Hyalomma affine</i>			
	<i>Hyalomma syriacum</i>			
	<i>Hyalomma syriacum punctata</i>			Schulze 1920
	<i>Hyalomma syriacum punctatum</i>			Schulze 1920
	<i>Hyalomma testudinis</i>			Hasselquist 1762
	<i>Ixodes aegyptius</i>			Linnaeus 1758
	<i>Ixodes testudinis</i>			Leydig 1855
	<i>dromedarii</i>		Buffalo, Cattle, Goat, Sheep, Dog, Camel, Horse	Koch 1844b
	<i>Ixodes trilineatus</i>			Lucas 1836
	<i>Ixodes cinctus</i>			Lucas 1840
Synonyms	<i>Hyalomma margaropoides</i>			Senevet 1922
	<i>Hyalomma canariense</i>			Schulze and Schlottke 1930
	<i>Hyalomma persiacum</i>			Olenev 1931
	<i>Hyalomma yakimovi</i>			Olenev 1931
	<i>Hyalomma delpyi</i>			Schulze & Gossel 1936

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Genus	<i>Hyalomma</i>	Koch 1844a		
	<i>detritum</i>		Camel	Schulze 1919, Schulze 1920
Synonyms	<i>Hyalomma</i>			Schulze & Gossel 1936
	<i>excavatum</i>		Buffalo	Koch 1844
	<i>Acarus aegyptium</i>			Linnaeus 1758
	<i>Hyalomma syriacum</i>			Koch 1844
Synonyms	<i>Ixodes cornuger</i>			Kolenati 1857
	<i>Hyalomma affine</i>			Neumann 1899
	<i>Hyalomma punctata</i>			Schulze 1919
	<i>Hyalomma suriacum</i>			Oswald 1941
	<i>hussaini</i>		Cattle, Buffalo	Sharif 1928, Feldwan-Muhsam 1951
Synonyms	<i>Hyalomma hussaini typica</i>			Sharif 1928
	<i>impeltatum</i>		Cattle, Camel	Schulze & Schlottke 1930
	<i>Hyalomma brumpti</i>			Delpy 1946
	<i>Hyalomma dromedarii leptosoma</i>			
	<i>Hyalomma erythraeum</i>			
Synonyms	<i>Hyalomma fezzanensis</i>			
	<i>Hyalomma impeltatum impeltatum</i>			
	<i>Hyalomma leptosoma</i>			
	<i>Hyalomma savignyi impeltatum</i>			
	<i>Hyalomma sinaii</i>			
	<i>isaaci</i>	Sharif, 1928	Cattle, Buffalo	Ghosh <i>et al.</i> 2007
	<i>Hyalomma aegyptium isaaci</i>			
Synonyms	<i>Hyalomma dromedarii indosinensis</i>			
	<i>Hyalomma marginatum isaaci</i>			
	<i>Hyalomma sharifi isaaci</i>			
	<i>kumari</i>	Sharif, 1928	Cattle, Buffalo	Ghosh <i>et al.</i> 2007
	<i>marginatum</i>		Buffalo	Koch 1844
	<i>Hyalomma aegyptium marginatum</i>			
	<i>Hyalomma cypriacum</i>			
	<i>Hyalomma dentatum,</i>			
	<i>Hyalomma marginatum bacuense</i>			
	<i>Hyalomma marginatum balcanicum</i>			Schulze & Schlottke 1929
	<i>Hyalomma marginatum brionicum</i>			
	<i>Hyalomma marginatum caspium</i>			
Synonyms	<i>Hyalomma marginatum espanoli</i>			
	<i>Hyalomma marginatum hispanum</i>			Fabricius 1787
	<i>Hyalomma marginatum marginatum</i>			
	<i>Hyalomma marginatum olenevi</i>			
	<i>Hyalomma plumbeum nigricum</i>			
	<i>Hyalomma rufipes glabratum</i>			
	<i>Hyalomma steineri codinai</i>			
	<i>Hyalomma transcaucasicum</i>			
	<i>marginatum toranicum</i>			Koch 1844a, Durrani & Kamal 2008

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Genus	<i>Hyalomma</i>	Koch 1844a		
	<i>rufipes</i>	Koch 1844	Buffalo, Cattle, Sheep, Goats	Koch 1844a
	<i>Hyalomma aegyptium impressum rufipes</i>			Koch 1844a
	<i>Hyalomma aequipunctatum</i>			
	<i>Hyalomma impressum rufipes</i>			Koch 1844a
Synonyms	<i>Hyalomma marginatum impressum</i>			
	<i>Hyalomma marginatum rufipes</i>			Koch 1844a
	<i>Hyalomma plumbeum impressum</i>			
	<i>Hyalomma rufipes rufipes</i>			Koch 1844
	<i>Hyalomma savignyi impressa</i>			Rousselot 1946
	<i>schulzei</i>		Camel	Olenev 1931
	<i>scupense</i>		Buffalo, Cattle, Sheep, Goat, Dog, Cat, Poultry	Schulze 1919, Sharif 1928
	<i>Hyalomma aegyptium ferozedini</i>			
	<i>Hyalomma dardanicum</i>			
	<i>Hyalomma detritum</i>			
	<i>Hyalomma detritum albipictum</i>			
	<i>Hyalomma detritum annulatum</i>			
	<i>Hyalomma detritum damascenium</i>			
	<i>Hyalomma detritum dardanicum</i>			
	<i>Hyalomma detritum detritum</i>			
	<i>Hyalomma detritum mauritanicum</i>			
	<i>Hyalomma detritum perstrigatum</i>			
	<i>Hyalomma detritum rubrum</i>			
Synonyms	<i>Hyalomma detritum scupense</i>			
	<i>Hyalomma mauritanicum</i>			
	<i>Hyalomma mauritanicum annulatum</i>			
	<i>Hyalomma scupense detritum</i>			
	<i>Hyalomma scupense scupense</i>			
	<i>Hyalomma sharifi</i>			Schulze and Schlottke 1929
	<i>Hyalomma steineri</i>			
	<i>Hyalomma steineri enigkianum</i>			
	<i>Hyalomma steineri steineri</i>			
	<i>Hyalomma uralense</i>			
	<i>Hyalomma verae</i>			
	<i>Hyalomma volgense</i>			
	<i>turanicum</i>		Buffaloes, Dog, Cat, Poultry, Goat, Cattle, Sheep	Pomerantse 1946
	<i>Hyalomma aegyptium impressum transiens</i>			
	<i>Hyalomma impressum luteipes</i>			
Synonyms	<i>Hyalomma impressum planum</i>			
	<i>Hyalomma impressum planum rhinocerotis</i>			Schulze and Schlottke 1929a
	<i>Hyalomma impressum transiens</i>			
	<i>Hyalomma lewisi</i>			Schulze 1936e

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Genus <i>Hyalomma</i>		Koch 1844a		
	<i>turanicum</i>		Buffaloes, Dog, Cat, Poultry, Goat, Cattle, Sheep	Pomerantse 1946
Synonyms	<i>Hyalomma planum</i>			
	<i>Hyalomma planum rhinocerotis</i>			Schulze and Schlottke 1929a
	<i>Hyalomma rhinocerotis</i>			Schulze and Schlottke 1929a
	<i>Hyalomma savignyi typica</i>			Rousselot 1946
	<i>Hyalomma transiens</i>			
	<i>Hyalomma zambesianum</i>			
	<i>Hyalommina lewisi</i>			Schulze 1936e
Genus <i>Ixodes</i>		Latreille 1795		
	<i>ricinus</i>		Cattle, Sheep	Linnaeus 1758, Lucas 1844 a, b, Leydig 1855, Iqbal <i>et al.</i> 2014
Synonyms	<i>Acarus ricinoides</i>			de Geer 1778
	<i>Ixodesreduvius</i>			Latreille 1806
	<i>Acarus caraborum</i>			
	<i>Acarus reduvius</i>			Linnaeus 1758
	<i>Acarus ricinus</i>			
	<i>Crotonus ricinus</i>			
	<i>Cynorhaestes hermanni</i>			
	<i>Cynorhaestes megathyreus</i>			
	<i>Cynohraestes reduvius</i>			Linnaeus 1758
	<i>Cynorhaestes ricinus</i>			
	<i>Euixodes reduvius</i>			Linnaeus 1758
	<i>Euixodes ricinus</i>			
	<i>Ixodes areolaris, Ixodes bipunctatus</i>			
	<i>Ixodes fodiens</i>			
	<i>Ixodes fouisseur</i>			
	<i>Ixodes fuscus</i>			Koch 1844b)
	<i>Ixodes lacertae</i>			
	<i>Ixodes megathyreus</i>			
	<i>Ixodes nigricans</i>			
	<i>Ixodes obscurus</i>			Neumann 1899
	<i>Ixodes pustularum</i>			
	<i>Ixodes reduvius</i>			Linnaeus 1758
	<i>Ixodes reticulatus</i>			Koch 1856
	<i>Ixodes ricinus onchorhyncha</i>			
	<i>Ixodes rufus</i>			
	<i>Ixodes sciuri</i>			Koch 1844c
	<i>Ixodes sulcatus</i>			Koch 1844a
	<i>Ixodes trabeatus</i>			
	<i>Ixodes vulgaris</i>			Fabricius 1805
	<i>Phauloixodes rufus</i>			
	<i>Rhipicephalus rufus</i>			

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Genus <i>Rhipicephalus</i>		Koch 1844b		
	<i>appendiculatus</i>		Cattle, Buffalo, Dog	Neumann 1901
Synonyms	<i>Eurhipicephalus appendiculatus</i>			
	<i>arnoldi</i>		Buffalo, Cattle	Theiler and Zumpt 1949
	<i>decoloratus</i>		Buffalo, Cattle	Koch 1867
	<i>Boophilus annulatus decoloratus</i>			
	<i>Boophilus capensis</i>			Massey 1908
	<i>Boophilus decoloratus</i>			
	<i>Boophilus floriae</i>			
Synonyms	<i>Boophilus scheepersi</i>			
	<i>Eurhipicephalus decoloratus</i>			
	<i>Margaropus annulatus decoloratus</i>			
	<i>Margaropus decoloratus</i>			
	<i>Palpoboophilus decoloratus</i>			
	<i>Rhipicephalus annulatus decoloratus</i>			
	<i>evertsi</i>		Buffalo, Cattle	Neumann 1897, Neumann 1899, Neumann 1996, Neumann 1905
	<i>Eurhipicephalus evertsi</i>			
Synonyms	<i>Rhipicephalus evertsi albigeniculatus</i>			
	<i>Rhipicephalus evertsi evertsi</i>			
	<i>Rhipicephalus evertsi mimeticus</i>			
	<i>Rhipicephalus mimeticus</i>			
	<i>haemaphysaloides</i>		Sheep, Cattle, Goat	Supino 1897, Irshad <i>et al.</i> 2010
	<i>Rhipicephalus expeditus</i>			
	<i>Rhipicephalus haemaphysaloides expedita</i>			
	<i>Rhipicephalus haemaphysaloides expeditus</i>			
Synonyms	<i>Rhipicephalus haemaphysaloides haemaphysaloides</i>			
	<i>Rhipicephalus haemaphysaloides niger</i>			
	<i>Rhipicephalus haemaphysaloides ruber</i>			
	<i>Rhipicephalus ruber</i>			
	<i>kochi</i>		Buffalo, Cattle	Dönitz 1905, Dönitz 1907a
Synonyms	<i>Rhipicephalus neavei</i>			
	<i>longus</i>		Buffalo, Cattle	Razzak and Shaikh 1969, Neumann 1907
	<i>Rhipicephalus capensis longus</i>			
Synonyms	<i>Rhipicephalus confusus</i>			Santos Dias 1956c
	<i>Rhipicephalus falcatus</i>			
	<i>microplus</i>		Cattle, Camel	Canestrini 1888, Farooqi <i>et al.</i> 2017, Karim <i>et al.</i> 2017, Asim <i>et al.</i> 2009, Sultana <i>et al.</i> 2015
	<i>Margaropus microplus</i>			Canestrini 1888
	<i>Margaropus annulatus microplus</i> Rohr			
	<i>Margaropus annulatus australis</i> (Fuller)			
Synonyms	<i>Boophilus annulatus argentinus</i>			
	<i>Boophilus annulatus australis</i>			Fuller 1899
	<i>Boophilus annulatus caudatus</i>			
	<i>Boophilus annulatus microplus</i>			
	<i>Boophilus argentinus, Boophilus australis</i>			Fuller 1899

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Genus <i>Rhipicephalus</i>		Koch 1844b		
	<i>microplus</i>		Cattle, Camel	Canestrini 1888, Farooqi <i>et al.</i> 2017, Karim <i>et al.</i> 2017, Asim <i>et al.</i> 2009, Sultana <i>et al.</i> 2015
	<i>Boophilus caudatus</i> , <i>Boophilus cyclops</i>			
	<i>Boophilus distans</i> , <i>Boophilus microplus</i>			
	<i>Boophilus microplus annulatus</i>			
	<i>Boophilus minningi</i>			
	<i>Boophilus sharifi</i>			Siddiqi & Jan 1984a
	<i>Rhipicephalus sharifi</i>			Siddiqi & Jan 1984
	<i>Haemaphysalis micropla</i>			
	<i>Margaropus annulatus argentinus</i>			
	<i>Margaropus annulatus australis</i>			Fuller 1899, Fabricicus 1798
	<i>Margaropus annulatus caudatus</i>			
	<i>Margaropus annulatus mexicanus</i>			
	<i>Margaropus annulatus microplus</i>			
	<i>Margaropus argentinus</i>			
	<i>Margaropus australis</i>			Fuller 1899
	<i>Margaropus caudatus</i>			
	<i>Margaropus micropla</i>			
	<i>Margaropus microplus</i>			
	<i>Palpoboophilus brachyuris</i>			
	<i>Palpoboophilus minningi</i>			
	<i>Rhipicephalus annulatus argentinus</i>			
	<i>Rhipicephalus annulatus australis</i>			Fuller 1899
	<i>Rhipicephalus annulatus caudatus</i>			
	<i>Rhipicephalus annulatus microplus</i>			
	<i>Rhipicephalus argentinus</i>			
	<i>Rhipicephalus caudatus</i>			
	<i>Uroboophilus australis</i>			Fuller 1899
	<i>Uroboophilus caudatus</i>			
	<i>Uroboophilus cyclops</i>			
	<i>Uroboophilus distans</i>			
	<i>Uroboophilus indicus</i>			
	<i>Uroboophilus microplus</i>			
	<i>pravus</i>		Sheep, Goat, Pig,Camel, Dog, Donkey	Dönitz 1910
Synonyms	<i>Rhipicephalus pravus pravus</i>			
	<i>sanguineus</i>		Buffalo, Cattle,Goat, Camel, Dog, Horse	Latreille 1806, Ahmad 1991, Atif <i>et al.</i> 2012, Bashir <i>et al.</i> 2009, Durrani & Shakoori 2009, Hussain & Kumar 1985, Roy <i>et al.</i> 2018, Shah <i>et al.</i> 2015, Theiler 1947
	<i>Ixodes sanguineus</i>			Latreille 1806
	<i>Ixodes linnaei</i>			Audouin 1826, Audouin & Milne-Edwards 1832
	<i>Ixodes plumbeus</i>			Donitz 1910, Duges 1834
Synonyms	<i>Ixodes dugesi</i>			Gervais 1844
	<i>Rhipicephalus limbatus</i>			Koch 1844b
	<i>Rhipicephalus linnei</i>			Koch 1844b

continued

Table I. Checklist of tick species of Pakistan. —cont'd

Species	Authors and year of publication	Host animals	References
Genus <i>Rhipicephalus</i>	Koch 1844b		
<i>sanguineus</i>		Buffalo, Cattle,Goat, Camel, Dog, Horse	Latreille 1806, Ahmad 1991, Atif <i>et al.</i> 2012, Bashir <i>et al.</i> 2009, Durrani & Shakoori 2009, Hussain & Kumar 1985, Roy <i>et al.</i> 2018, Shah <i>et al.</i> 2015, Theiler 1947
Synonyms	<i>Rhipicephalus rutilus</i>		Koch 1844b
	<i>Rhipicephalussiculus</i>		Koch 1844b
	<i>Rhipicephalus carinatus</i>		Frauenfeld 1867, Warburton 1910
	<i>Rhipicephalus rubicundus</i>		Frauenfeld 1867, Warburton 1910
	<i>Rhipicephalus stigmaticus</i>		Gerstaecker 1873
	<i>Rhipicephalus bhamensis</i>		Supino 1897
	<i>Rhipicephalus brevicollis</i>		Neumann 1897
	<i>Rhipicephalus flavus</i>		Supino 1897
	<i>Boophilus dugesi</i>		Donitz 1907
	<i>Eurhipicephalus sanguineus</i>		Stephens & Christophers 1908
	<i>Rhipicephalus texanus</i>		Banks 1908
	<i>Rhipicephalus breviceps</i>		Warburton 1910
	<i>Rhipicephalus dugesi</i>		Neumann 1911 a, b
	<i>Rhipicephalus macropis</i>		Schulze 1936
	<i>turanicus</i>	Dog, Cattle, Sheep	Pomerantzev 1946, Manan <i>et al.</i> 2007
Synonyms	<i>Rhipicephalus secundus</i>		Feldman-Muhsam 1952
	<i>Rhipicephalus turamicus</i>		Uzakov 1964