Table 2. List of butterflies from Pench Tiger Reserve

Scientific name	Common name	Status
<u>Papilionidae</u>		
<i>Pathysa nomius nomius</i> Eper., 1785	Spot Swordtail	C
<i>Papilio demoleus demoleus</i> Linn., 1758	Lime Butterfly	VC
<i>Papilio polytes romulus</i> Cramer, 1775	Common Mormon	VC
<i>Pachliopta hector</i> Linn., 1758	Crimson Rose	R
<i>Chilasa clytia clytia</i> Linn., 1758	Common Mime	R
<u>Pieridae</u>		
<i>Belenois aurota aurota</i> Fab., 1793	Pioneer	R
<i>Ceporna nerissa phryne</i> Fab., 1775	Common Gull	R
<i>Catopsilia pomona</i> Fab., 1775	Lemon Emigrant	VC
<i>Catopsilia pyranthe pyranthe</i> Linn., 1758	Mottled Emigrant	VC
<i>Earema brigittarubella</i> Wallace, 1867	Small Grass Yellow	C
<i>Earema laeta laeta</i> Boisduvanil, 1836	Spotless Grass yellow	VC
<i>Earema hecabe simulata</i> Moore, 1881	Common Grass Yellow	VC
<u>Danaidae</u>		
<i>Danaus chrysippus</i> Linn., 1758	Plain Tiger	VC
<i>Danaus genutia</i> Cramer, 1779	Common Tiger	VC
<i>Tirumala limniace leopards</i> Butler, 1866	Blue Tiger	C
<i>Euploea core core</i> Cramer, 1780	Common Indian Crow	C
<u>Satyridae</u>		
<i>Melanitis leda ismene</i> Cramer, 1775	Common Evening Brown	C
<i>Mycalesis mineus</i> Linn., 1767	Dark-Brand Bushbrown	R
<i>Ypthima asterope</i> Klug, 1832	Common Three-ring	C
<u>Nymphalidae</u>		
<i>Phalanta phalantha phalantha</i> Drury, 1770	Common Leopard	C
<i>Cynthia cardui</i> Linn., 1758	Painted Lady	R
<i>Junonia almana almana</i> Linn., 1758	Peacock Pansy	R
<i>Junonia atlites</i> Linn., 1763	Grey Pansy	R
<i>Junonia hierta hierta</i> Fab., 1798	Yellow Pansy	R
<i>Junonia lemonias vaisya</i> Fruhstorfer, 1912	Lemon Pansy	C
<i>Junonia orithya swinhoi</i> Butler, 1885	Blue Pansy	R
<i>Hypolimnas bolina</i> Linn., 1758	Great Eggfly	R
<i>Hypolimnas misippus</i> Linn., 1764	Danaid Eggfly	C
<i>Symphaedra nais</i> Forster, 1771	Baronet	C
<u>Acraeidae</u>		
<i>Acraea violae</i> Fab., 1775	Twany Coster	VC
<u>Lycaenidae</u>		
<i>Catochrysops starbo strabo</i> Fab., 1793	Forget-me-not	VC
<i>Castalius rosimon rosimon</i> Fab., 1775	Common Pierrot	C
<i>Tarucus theophrastus</i> Fab., 1793	Pointed Pierrot	VC
<i>Zizeeria gaika</i> Trimen, 1862	Tiny Grass Blue	VC
<i>Chilades pandava</i> Horsfield, 1829	Plains Cupied	VC
<i>Rapala melampus</i> Cramer, 1781	Small Branded Swift	R
<u>Hesperiidae</u>		
<i>Peelopidas mathias</i> Fab., 1798	Small Branded Swift	R
<i>Telicota ancilla</i> Herrich-Schaffer, 1869	Pale Palm Dart	R

VC- Very Common in Pench Tiger Reserve, C- Common in Pench Tiger Reserve, R- Rare in Pench Tiger Reserve.

BUTTERFLIES OF KALATOP-KHAJJAR WILDLIFE SANCTUARY, HIMACHAL PRADESH

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Kalatop-Khajjar Wildlife Sanctuary in Himachal Pradesh is situated at an altitude of 1185-2768m. It extends between 31°31'-32°37'N and 75°58'-76°7'E in the foothills of Kailash Parvat (western Himalaya). The Sanctuary is spread over 20.69km² area, and lies in the catchment of river Ravi. The area contains a good number of coniferous and oak forest patches. A lovely bowl-shaped meadow at Khajjar, with a lake and a floating island is a popular tourist spot. The Sanctuary has alluvial soil that is a substrate to plants like mixed Blue Pine and *Cedrus deodara*, Green Oak and *Rhododendron arboreum*. Average rainfall is 2647.68mm and average snowfall is 672.3mm. Temperature ranges between -10°C in winter and 35°C in summer.

Kalatop-Khajjar Wildlife Sanctuary has no consolidated and authentic record of butterflies. A number of surveys were made from September 2000 to August 2001, which resulted in the enumeration of 49 species belonging to 38 genera in nine families (Table 1). After referring publications of butterflies of the region (Philip de Rhe, 1936; Wynter-Blyth, 1940, 1945, 1946, 1957; Mani, 1986), *Lethe scanda* Moore, *Ypthima lycus* deN. and *Ypthima ceylonica hubneri* Kirby turned out to be first records for Himachal Pradesh.

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Table 1. Butterflies from Kalatop-Khajjiar Wildlife Sanctuary.

Scientific name	Common name	Scientific name	Common name
<u>Papilionidae</u>		<u>Lycaenidae</u>	
<i>Papilio protenor protenor</i> Cramer	Spangle	<i>Pseudozizeeria maha</i> (Kollar)	Pale Grass Blue
<i>Papilio polyctor polyctor</i> Boisduval	Common Peacock	<i>Lampides boeticus</i> (Linn.)	Peabue
<i>Parnassius hardwicki hardwicki</i> Gray*	Common Blue Apollo	<i>Lycaena pavana</i> (Kollar)	White-Bordered Copper
<u>Pieridae</u>		<i>Heliophorus sena</i> (Kollar)	Sorrel Sapphire
<i>Delias belladonna horsfieldi</i> (Gray)**	Hill Jezebel	<i>Narathura dodonea</i> (Moore)*	Pale Himalayan Oakblue
<i>Pieris canidia indica</i> Evans	Indian Cabbage White	<u>Hesperiidae</u>	
<i>Catopsilia crocale</i> Cramer	Common Emigrant	<i>Coladenia dan</i> (Fabr.)	Fulvous Pied Flat
<i>Gonepteryx rhamni nepalensis</i> Doubleday	Common Brimstone	<i>Sarangesa purendra</i> (Moore)	Spotted Small Flat
<i>Eurema hecabe fimbriata</i> (Wallace)	Common Grass Yellow	<i>Polytremia eltola</i> Hewitson*	Yellow-Spot Swift
<i>Colias electo fieldi</i> Menetries	Dark Clouded Yellow	<i>Boebo bevari</i> Moore	Bevan's Swift
<u>Danaidae</u>		* Rare; ** Uncommon	
<i>Danaus genutia</i> (Cramer)	Common Tiger	References	
<i>Parantica sita sita</i> (Kollar)	Chestnut Tiger	Mani, M.S. (1986). <i>Butterflies of Himalaya</i> . Oxford & IBH Publishing Company, New Delhi, x+181pp.	
<u>Satyridae</u>		Philippe de Rhe G.W.V. (1931). The butterflies of the Shimla Hills. <i>Journal of the Bombay Natural History Society</i> 35: 172-84, 415-429, 629-634.	
<i>Mycalopsis perseus blasius</i> (Fabr.)	Common Bushbrown	Wynter-Blyth, M.A. (1940). A list of the butterflies of the Shimla Hills. <i>Journal of the Bombay Natural History Society</i> 41: 716-741.	
<i>Lethe insana insana</i> (Kollar)	The Common Forester	Wynter-Blyth, M.A. (1945). A list of the butterflies of the Shimla Hills. <i>Journal of the Bombay Natural History Society</i> 45: 256-257.	
<i>Lethe scanda</i> (Moore)	Blue Forester	Wynter-Blyth, M.A. (1946). A list of the butterflies of the Shimla Hills. <i>Journal of the Bombay Natural History Society</i> 46: 735-736.	
<i>Lethe verma verma</i> (Kollar)	Straight-Banded Treebrown	Wynter-Blyth, M.A. (1957). <i>Butterflies of the Indian Region</i> . Bombay Natural History Society, Bombay, 523pp.+72pls.	
<i>Lasiommata schakra schakra</i> (Kollar)	Common Wall		
<i>Aulocera swaha swaha</i> (Kollar)	Common Satyr		
<i>Aulocera saraswati saraswati</i> (Kollar)	Striated Satyr		
<i>Callerebia annada</i> Moore	Ringed Argus		
<i>Ypthima lycus</i> de N. **	Plain Threering		
<i>Ypthima narenda narenda</i> (Kollar)	Large Threering		
<i>Ypthima ceylonica hubneri</i> Kirby*	Common Fourring		
<i>Ypthima sakra nikaea</i> Moore	Himalayan Fiverring		
<i>Melanitis leda ismene</i> (Cramer)	Common Evening Brown		
<u>Nymphalidae</u>			
<i>Athyma opalina</i> (Kollar)	Himalayan Sergeant		
<i>Athyma asura</i> (Moore)**	Studded Sergeant		
<i>Neptis mahendra</i> Moore	Himalayan Sailer		
<i>Neptis hylas astola</i> Moore	Common Sailer		
<i>Pseudergolis wedah</i> (Kollar)*	Tabby		
<i>Precis iphita</i> (Cramer)	Chocolate Pansy		
<i>Cynthia cardui</i> (Linn)	Painted Lady		
<i>Vanessa indica</i> (Herbst)	Indian Red Admiral		
<i>Vanessa canace</i> (Johanssen)**	Blue Admiral		
<i>Aglais cashmirensis</i> (Kollar)	Indian Tortoiseshell		
<i>Chilodreia childreni</i> (Gray)	Large Silverstripe		
* <i>Issoria lathonia</i> (Linn.)	Queen of Spain Fritillary		
<u>Acraeidae</u>			
<i>Acraea issoria anomala</i> Kollar	Yellow Coster		
<u>Erycinidae</u>			
<i>Libythea myrrha</i> Godart	Club Beak		
<i>Libythea lepita</i> Moore	Common Beak		
<i>Dodona durga</i> (Kollar)	Common Punch		