

**Appendix Table 1** List of recorded lotic Diptera taxa at Khao Yai National Park from July 2000 to June 2001. Sites numbers as in table 3.

Taxa	Site Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Genus <i>Simulium</i>																				
Subgenus <i>Gomphostilbia</i>																				
<i>batoense</i> species-group																				
1. <i>S. (G.) angulistylum</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2. <i>S. (G.) decuplum</i>		X					X		X	X		X	X		(X)	X	X			X
3. <i>S. (G.) dentistylum</i>																X				
4. <i>S. (G.) gombakense</i>						(X)			X	(X)	X									
5. <i>S. (G.) siamense</i>				X			X	X	X	X		X	X		X	X	X	X	X	X
6. <i>S. (G.)</i> sp. A							X									X		X		
<i>batoense</i> -group	X		X	X			X	X	X	X	X	X	X	(X)	X	X	X	X	X	X
<i>ceylonicum</i> species-group																				
7. <i>S. (G.) asakoae</i>					X	(X)	X	(X)	X	X	X	X	X	X	X	X	X	X	(X)	X
8. <i>S. (G.) sheilae</i>							X				X					X		X		
9. <i>S. (G.)</i> sp. nr. <i>sheilae</i>							X		X	X		X		(X)	(X)	X	(X)			
<i>ceylonicum</i> -group		(X)			X		X	X	X	X	X	X		X		X	X	X		X

**Appendix Table 1** (Continued)

Taxa	Site Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<i>varicorne</i> species-group																				
10. <i>S. (G.) novemarticulatum</i>								X							(X)	X				
ungrouped species																				
11. <i>S. (G.)</i> sp. B															X				X	
12. <i>S. (G.)</i> sp. C											X									
Subgenus <i>Nevermannia</i>																				
<i>feuerborni</i> species-group																				
13. <i>S. (N.) feuerborni</i>														X						
Subgenus <i>Simulium</i>																				
<i>griseifrons</i> species-group																				
14. <i>S. (S.) grossifilum</i>						X					X									
15. <i>S. (S.) rudnicki</i>										(X)	X									
<i>multistriatum</i> species-group																				
16. <i>S. (S.) chainarongi</i>					X				X	(X)	X		X			X	X			
17. <i>S. (S.) fenestratum</i>	X		(X)	X	(X)				X	X	X	X	X			X	(X)			

**Appendix Table 1** (Continued)

Taxa	Site Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<i>striatum</i> species-group																				
18. <i>S. (S.) nakhonense</i>				X		X		X			X		X		X	X			X	
19. <i>S. (S.) quinquestriatum</i>				X				X	(X)	X	X	X	X		X				X	X
<i>tuberosum</i> species-group																				
20. <i>S. (S.) tani</i>			X				X	X	X	X	X	X	X		X	X	X		X	X
ungrouped species																				
21. <i>S. (S.)</i> sp. D						(X)				(X)										
22. <i>S. (S.)</i> sp. E	(X)	(X)																		
Family Tipulidae																				
23. <i>Antocha</i>			X	X							X	X								X
24. <i>Hexatoma</i>		X			X				X	X				X		X	X			
25. <i>Tipula</i>				X	X					X		X			X	X	X			X
Family Blephariceridae																				
26. <i>Blepharicera</i>	X			X							X									
27. <i>Apistomyia</i>											X									

**Appendix Table 1** (Continued)

Taxa	Site Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Family Psychodidae																				
28. <i>Neotelmatoscopus</i>			X		X	X			X		X	X								X
29. <i>Telmatoscopus</i>						X														
Family Dixidae							X		X	X	X	X				X				X
Family Ceratopogonidae					(X)								X							
Family Chironomidae		X	X	X		X	X	X	X		X	X	X		X	X	X	X	X	X
Family Tabanidae								X												
Family Athericidae								X		X	X	X	X		X	X	X	X	X	X
Family Ephydriidae																X				
Family Muscidae															X					

( ) Specimens were from samples collected prior to July 2000 and later June 2001.

**Appendix Table 2** List of recorded black fly taxa at Khao Yai National Park from July 2000 to June 2001 and environmental data at which each was collected.

Taxa	Altitude (m)	Water temperature (°C)	pH	Human disturbance stream		Canopy cover		Primary substrate				
				Disturbed	Undisturbed	Open	Close	R-G-S	B-R-G	G-R-S	G-S-R	S-R-G
Family Simuliidae												
Genus <i>Simulium</i>												
Subgenus <i>Gomphostilbia</i>												
<i>batoense</i> species-group												
1. <i>S. angulistylum</i>	188-952	18.4-26.4	5.04-7.95	X	X	X	X	X	X	X	X	X
2. <i>S. decuplum</i>	199-751	18.4-24.5	6.01-7.75	(X)	X	X	X	X			X	X
3. <i>S. dentistylum</i>	744	19.3-23.1	6.72-6.85		X		X					X
4. <i>S. gombakense</i>	297-654	23.0-25.0	7.10-7.90		X	X	(X)	X	X	(X)		
5. <i>S. siamense</i>	233-751	18.4-28.2	5.88-7.70	X	X	X	X	X	X		X	X
6. <i>S. sp. A</i>	404-744	19.3-24.3	6.07-7.41		X		X				X	X
<i>batoense</i> -group*				X	X	X	X	X	X		X	X
<i>ceylonicum</i> species-group												
7. <i>S. asakoe</i> *	297-952	19.1-25.0	5.88-7.63		X	X	X	X		(X)	X	X
8. <i>S. sheilae</i>	404-744	19.3-26.4	5.59-7.38		X	X	X		X		X	X
9. <i>S. sp. nr. sheilae</i> *	404-952	18.4-24.3	5.20-7.43	X	X	X	X	X			X	X
<i>ceylonicum</i> -group*					X	X	X	X	X	X	X	X

**Appendix Table 2** (Continued)

Taxa	Altitude (m)	Water temperature (°C)	pH	Human disturbance stream		Canopy cover		Primary substrate				
				Disturbed	Undisturbed	Open	Close	R-G-S	B-R-G	G-R-S	G-S-R	S-R-G
<i>varicorne</i> species-group												
10. <i>S. novemarticulatum</i>	404-744	23.1-24.6	6.63-7.19	(X)	X	X	X	X				X
ungrouped species												
11. <i>S. sp. B</i>	633-695	22.3-24.5	7.00-7.20	X		X		X	X			
12. <i>S. sp. C</i>	654	24.2-24.3	7.90-7.93		X	X			X			
Subgenus <i>Nevermannia</i>												
<i>feuerborni</i> species-group												
13. <i>S. feuerborni</i>	952	19.5-21.7	5.64-5.88		X		X	X				
Subgenus <i>Simulium</i>												
<i>griseifrons</i> species-group												
14. <i>S. grossifilum</i> *	297-654	24.2-24.3	7.93		X	X	X		X	X		
15. <i>S. rudnicki</i>	505-654	20.0-22.4	7.75-7.98		X	X	(X)	(X)	X			
<i>multistriatum</i> species-group												

**Appendix Table 2** (Continued)

Taxa	Altitude (m)	Water temperature (°C)	pH	Human disturbance stream		Canopy cover		Primary substrate				
				Disturbed	Undisturbed	Open	Close	R-G-S	B-R-G	G-R-S	G-S-R	S-R-G
16. <i>S. chainarongi</i>	256-751	20.0-24.5	6.59-7.76		X	X	X	X	X	X	X	X
17. <i>S. fenestratum</i> <i>striatum</i> species-group	188-751	20.0-25.5	6.19-7.90	(X)	X	X	X	X	X	X	(X)	X
18. <i>S. nakhonense</i>	233-751	19.0-26.1	6.19-7.70	X	X	X	X	X	X	X		X
19. <i>S. quinquestriatum</i> <i>tuberosum</i> species-group	233-751	19.0-26.1	6.19-7.98	X	X	X	X	X	X			
20. <i>S. (S.) tani</i> ungrouped species	200-751	19.0-25.7	6.19-7.98	X	X	X	X	X	X		X	X
21. <i>S. (S.)</i> sp. D*	297-505	24.2	8.09		(X)		(X)	(X)		(X)		
22. <i>S. (S.)</i> sp. E*	188-199	24.7-25.5	5.62-7.16		(X)		(X)	(X)				

( ) Specimens were from samples collected prior to July 2000 and later June 2001.

\* Not include in data analysis

Primary substrate as B = bedrock, R = rock, G = gravel, S = sand