

**Table S9: Key Species Value (Kv) in each ecosystem****Table S9.1 Plantation/industrial forest plantation (K1a: number of species 30 ± 2.4)**

Family	Species	Trophic	Kv	Rank
MURIDAE	Niviventer cremoriventer	Omnivore	9.65	1
TUPAIIDAE	Tupaia gracilis	Omnivore	9.32	2
MURIDAE	Maxomys whiteheadi	Omnivore	9.11	3
TUPAIIDAE	Tupaia tana	Omnivore	8.44	4
SCIURIDAE	Ratufa affinis	Herbivore	8.20	5
SCIURIDAE	Lariscus insignis	Herbivore	7.32	6
MURIDAE	Maxomys rajah	Omnivore	7.28	7
PTEROPODIDAE	Pteropus vampyrus	Herbivore	6.47	8
HYSTRICIDAE	Hystrix brachyura	Herbivore	6.45	9
LORISIDAE	Nycticebus menagensis	Omnivore	6.01	10
TRAGULIDAE	Tragulus kanchil	Herbivore	5.84	11
CERVIDAE	Muntiacus muntjak	Herbivore	5.14	12
VIVERRIDAE	Arctictis binturong	Omnivore	4.94	13
CYNOCEPHALIDAE	Galeopterus variegatus	Herbivore	4.90	14
CERVIDAE	Rusa unicolor	Herbivore	4.80	15
SUIDAE	Sus barbatus	Omnivore	4.72	16
CERCOPITHECIDAE	Macaca fascicularis	Omnivore	4.66	17
CERCOPITHECIDAE	Macaca nemestrina	Omnivore	4.46	18
TRAGULIDAE	Tragulus napu	Herbivore	4.32	19
CERCOPITHECIDAE	Presbytis rubicunda	Herbivore	3.89	20
CERCOPITHECIDAE	Nasalis larvatus	Herbivore	3.76	21
HYLOBATIDAE	Hylobates albibarbis	Omnivore	3.35	22
URSIDAE	Helarctos malayanus	Omnivore	3.30	23
CERCOPITHECIDAE	Trachypithecus cristatus	Herbivore	3.20	24
HYLOBATIDAE	Hylobates muelleri	Omnivore	3.20	25
FELIDAE	Prionailurus bengalensis	Carnivore	3.09	26
HOMINIDAE	Pongo pygmaeus	Omnivore	3.08	27
FELIDAE	Pardofelis marmorata	Carnivore	2.72	28
FELIDAE	Prionailurus planiceps	Carnivore	1.90	29
SORICIDAE	Suncus etruscus	Carnivore	1.71	30
TARSIIDAE	Cephalopachus bancanus	Carnivore	1.57	31
MANIDAE	Manis javanica	Carnivore	-2.74	32

**Table S9.2 Plantation/industrial forest plantation (K1b: number of species 21 ± 2.4)**

Family	Species	Trophic	Kv	Rank
MURIDAE	Rattus exulans	Omnivore	10.07	1
MURIDAE	Rattus argentiventer	Omnivore	8.36	2
VIVERRIDAE	Paradoxurus hermaphroditus	Omnivore	6.50	3
TRAGULIDAE	Tragulus kanchil	Herbivore	6.37	4
HYSTRICIDAE	Hystrix brachyura	Herbivore	6.22	5
SCIURIDAE	Callosciurus notatus	Omnivore	6.09	6
CERVIDAE	Rusa unicolor	Herbivore	5.98	7
CERCOPITHECIDAE	Macaca nemestrina	Omnivore	5.19	8
PRIONODONTIDAE	Prionodon linsang	Carnivore	4.97	9
CERCOPITHECIDAE	Macaca fascicularis	Omnivore	4.92	10
TRAGULIDAE	Tragulus napu	Herbivore	4.90	11
SUIDAE	Sus barbatus	Omnivore	4.85	12
URSIDAE	Helarctos malayanus	Omnivore	4.81	13
CERCOPITHECIDAE	Presbytis rubicunda	Herbivore	4.59	14
CERCOPITHECIDAE	Presbytis frontata	Herbivore	4.43	15
CERCOPITHECIDAE	Nasalis larvatus	Herbivore	4.38	16

Family	Species	Trophic	Kv	Rank
CERCOPITHECIDAE	Trachypithecus cristatus	Herbivore	4.10	17
HYLOBATIDAE	Hylobates muelleri	Omnivore	3.68	18
FELIDAE	Prionailurus bengalensis	Carnivore	3.58	19
MUSTELIDAE	Aonyx cinereus	Carnivore	2.24	20
MANIDAE	Manis javanica	Carnivore	-2.77	21

**Table S9.3 Plantation/industrial forest plantation (K1c: number of species 13 ± 2.1)**

Family	Species	Trophic	Kv	Rank
Callosciurus	Callosciurus notatus	Omnivore	8.28	1
VIVERRIDAE	Paradoxurus hermaphroditus	Omnivore	6.75	2
SUIDAE	Sus barbatus	Omnivore	5.67	3
TRAGULIDAE	Tragulus kanchil	Herbivore	5.61	4
CERVIDAE	Rusa unicolor	Herbivore	5.21	5
CERCOPITHECIDAE	Macaca fascicularis	Omnivore	5.04	6
CERCOPITHECIDAE	Presbytis rubicunda	Herbivore	4.59	7
URSIDAE	Helarctos malayanus	Omnivore	4.17	8
TRAGULIDAE	Tragulus napu	Herbivore	3.89	9
FELIDAE	Prionailurus bengalensis	Carnivore	3.85	10
HOMINIDAE	Pongo pygmaeus	Omnivore	2.76	11
MUSTELIDAE	Aonyx cinereus	Carnivore	1.97	12

**Table S9.4 Shrubland (K2a: number of species 34 ± 3.0)**

Family	Species	Trophic	Kv	Rank
TUPAIIDAE	Tupaia glis	Omnivore	9.89	1
SCIURIDAE	Callosciurus notatus	Omnivore	8.34	2
VIVERRIDAE	Viverra zibetha	Omnivore	7.39	3
SCIURIDAE	Callosciurus prevostii	Herbivore	7.05	4
VIVERRIDAE	Paradoxurus hermaphroditus	Omnivore	7.04	5
VIVERRIDAE	Arctogalidia trivirgata	Omnivore	7.00	6
HYSTRICIDAE	Hystrix brachyura	Herbivore	6.96	7
TRAGULIDAE	Tragulus kanchil	Herbivore	6.82	8
LORISIDAE	Nycticebus menagensis	Omnivore	6.81	9
CERVIDAE	Muntiacus atherodes	Herbivore	6.44	10
VIVERRIDAE	Arctictis binturong	Omnivore	6.37	11
CERVIDAE	Muntiacus muntjak	Herbivore	6.10	12
ERINACEIDAE	Echinosorex gymnura	Omnivore	5.86	13
VIVERRIDAE	Paguma larvata	Omnivore	5.86	14
CERCOPITHECIDAE	Macaca fascicularis	Omnivore	5.79	15
TRAGULIDAE	Tragulus napu	Herbivore	5.72	16
CERCOPITHECIDAE	Macaca nemestrina	Omnivore	5.61	17
PRIONODONTIDAE	Prionodon linsang	Carnivore	5.26	18
CERVIDAE	Rusa unicolor	Herbivore	5.26	19
SUIDAE	Sus barbatus	Omnivore	5.25	20
URSIDAE	Helarctos malayanus	Omnivore	4.94	21
CERCOPITHECIDAE	Presbytis rubicunda	Herbivore	4.91	22
CERCOPITHECIDAE	Presbytis frontata	Herbivore	4.86	23
TARSIIDAE	Cephalopachus bancanus	Carnivore	4.57	24
HYLOBATIDAE	Hylobates albobarbis	Omnivore	4.55	25
HYSTRICIDAE	Trichys fasciculata	Herbivore	3.99	26
FELIDAE	Prionailurus bengalensis	Carnivore	3.78	27
FELIDAE	Pardofelis marmorata	Carnivore	3.47	28
MEPHITIDAE	Mydaus javanensis	Carnivore	2.65	29
MUSTELIDAE	Aonyx cinereus	Carnivore	2.58	30
FELIDAE	Neofelis diardi	Carnivore	1.39	31
VIVERRIDAE	Hemigalus derbyanus	Carnivore	1.30	32

Family	Species	Trophic	Kv	Rank
MANIDAE	Manis javanica	Carnivore	-0.82	33

**Table S9.5 Shrubland (K2b:number of species 23 ± 3.3)**

Family	Species	Trophic	Kv	Rank
SCIURIDAE	Ratufa bicolor	Herbivore	9.15	1
SCIURIDAE	Callosciurus notatus	Omnivore	8.71	2
VIVERRIDAE	Paradoxurus hermaphroditus	Omnivore	7.74	3
VIVERRIDAE	Viverra zangalla	Omnivore	7.69	4
TRAGULIDAE	Tragulus kanchil	Herbivore	7.62	5
VIVERRIDAE	Arctogalidia trivirgata	Omnivore	7.56	6
LORISIDAE	Nycticebus menagensis	Omnivore	7.45	7
CYNOCEPHALIDAE	Galeopterus variegatus	Herbivore	7.12	8
HYSTRICIDAE	Hystrix brachyura	Herbivore	7.09	9
VIVERRIDAE	Arctictis binturong	Omnivore	6.66	10
CERCOPITHECIDAE	Macaca fascicularis	Omnivore	6.36	11
CERCOPITHECIDAE	Macaca nemestrina	Omnivore	6.21	12
TRAGULIDAE	Tragulus napu	Herbivore	6.13	13
CERVIDAE	Rusa unicolor	Herbivore	5.97	14
CERCOPITHECIDAE	Presbytis chrysomelas	Herbivore	5.67	15
SUIDAE	Sus barbatus	Omnivore	5.54	16
TARSIIDAE	Cephalopachus bancanus	Carnivore	5.31	17
CERCOPITHECIDAE	Trachypithecus cristatus	Herbivore	5.15	18
HYLOBATIDAE	Hylobates muelleri	Omnivore	5.05	19
FELIDAE	Prionailurus bengalensis	Carnivore	4.60	20
MUSTELIDAE	Aonyx cinereus	Carnivore	3.48	21
MANIDAE	Manis javanica	Carnivore	-0.17	22

**Table S9.6 Shrubland (K2c:number of species 14 ± 3.0)**

Family	Species	Trophic	Kv	Rank
SCIURIDAE	Callosciurus notatus	Omnivore	9.58	1
HERPESTIDAE	Herpestes brachyurus	Omnivore	8.54	2
HYSTRICIDAE	Hystrix brachyura	Herbivore	7.32	3
TRAGULIDAE	Tragulus napu	Herbivore	6.96	4
CERCOPITHECIDAE	Macaca fascicularis	Omnivore	6.88	5
CERVIDAE	Muntiacus muntjak	Herbivore	6.88	6
CERCOPITHECIDAE	Macaca nemestrina	Omnivore	6.26	7
HYLOBATIDAE	Hylobates muelleri	Omnivore	5.64	8
CERVIDAE	Rusa unicolor	Herbivore	5.51	9
SUIDAE	Sus barbatus	Omnivore	5.50	10
URSIDAE	Helarctos malayanus	Omnivore	5.15	11
FELIDAE	Prionailurus bengalensis	Carnivore	4.14	12
MUSTELIDAE	Aonyx cinereus	Carnivore	3.03	13

**Table S9.7 Forest (K3: number of species 34 ± 7.3)**

Family	Species	Trophic	Kv	Rank
SCIURIDAE	Petinomys genibarbis	Herbivore	11.86	1
TUPAIIDAE	Tupaia glis	Omnivore	9.87	2
EMBALLONURIDAE	Emballonura alecto	Carnivore	9.84	3
PTILOCECERIDAE	Ptilocercus lowii	Omnivore	9.46	4
TUPAIIDAE	Tupaia dorsalis	Omnivore	9.23	5
SCIURIDAE	Lariscus insignis	Herbivore	7.98	6
HYSTRICIDAE	Hystrix crassispinis	Herbivore	7.46	7
VIVERRIDAE	Paradoxurus hermaphroditus	Omnivore	7.45	8
TRAGULIDAE	Tragulus kanchil	Herbivore	7.40	9
LORISIDAE	Nycticebus menagensis	Omnivore	7.32	10

Family	Species	Trophic	Kv	Rank
SCIURIDAE	Callosciurus notatus	Omnivore	7.05	11
HYSTRICIDAE	Hystrix brachyura	Herbivore	6.99	12
SCIURIDAE	Ratufa bicolor	Herbivore	6.93	13
SCIURIDAE	Ratufa affinis	Herbivore	6.91	14
CERVIDAE	Muntiacus muntjak	Herbivore	6.40	15
CERCOPITHECIDAE	Macaca nemestrina	Omnivore	6.27	16
CERCOPITHECIDAE	Macaca fascicularis	Omnivore	6.24	17
SCIURIDAE	Callosciurus prevostii	Herbivore	6.20	18
SUIDAE	Sus scrofa	Omnivore	5.94	19
CERCOPITHECIDAE	Presbytis rubicunda	Herbivore	5.48	20
URSIDAE	Helarctos malayanus	Omnivore	5.39	21
CERCOPITHECIDAE	Presbytis frontata	Herbivore	5.20	22
SUIDAE	Sus barbatus	Omnivore	5.14	23
CERVIDAE	Rusa unicolor	Herbivore	5.05	24
FELIDAE	Prionailurus bengalensis	Carnivore	4.99	25
HYLOBATIDAE	Hylobates muelleri	Omnivore	4.84	26
HOMINIDAE	Pongo pygmaeus	Omnivore	4.29	27
SCIURIDAE	Rheithrosciurus macrotis	Herbivore	3.35	28
HIPPOSIDERIDAE	Hipposideros cineraceus	Carnivore	2.99	29
MUSTELIDAE	Lutra sumatrana	Carnivore	2.72	30
MANIDAE	Manis javanica	Carnivore	-1.78	31

**Table S9.8 Mixed (K4a: number of species 29 ± 2.9)**

Family	Species	Trophic	Kv	Rank
MURIDAE	Rattus tiomanicus	Omnivore	9.62	1
TUPAIIDAE	Tupaia dorsalis	Omnivore	9.38	2
SCIURIDAE	Lariscus hosei	Herbivore	7.43	3
SCIURIDAE	Callosciurus notatus	Omnivore	7.12	4
SCIURIDAE	Iomys horsfieldii	Herbivore	7.05	5
LORISIDAE	Nycticebus menagensis	Omnivore	6.77	6
HYSTRICIDAE	Hystrix brachyura	Herbivore	6.39	7
SCIURIDAE	Callosciurus prevostii	Herbivore	6.38	8
CYNOCEPHALIDAE	Galeopterus variegatus	Herbivore	6.38	9
HERPESTIDAE	Herpestes brachyurus	Omnivore	6.33	10
CERVIDAE	Muntiacus muntjak	Herbivore	6.26	11
VIVERRIDAE	Arctictis binturong	Omnivore	6.05	12
TRAGULIDAE	Tragulus kanchil	Herbivore	5.62	13
VIVERRIDAE	Paradoxurus hermaphroditus	Omnivore	5.47	14
CERCOPITHECIDAE	Macaca fascicularis	Omnivore	5.36	15
CERCOPITHECIDAE	Presbytis rubicunda	Herbivore	4.99	16
CERCOPITHECIDAE	Macaca nemestrina	Omnivore	4.92	17
PTEROPODIDAE	Pteropus vampyrus	Herbivore	4.81	18
VIVERRIDAE	Paguma larvata	Omnivore	4.56	19
HYLOBATIDAE	Hylobates albibarbis	Omnivore	4.50	20
SUIDAE	Sus barbatus	Omnivore	4.47	21
TRAGULIDAE	Tragulus napu	Herbivore	4.26	22
TARSIIDAE	Cephalopachus bancanus	Carnivore	3.99	23
HOMINIDAE	Pongo pygmaeus	Omnivore	3.76	24
URSIDAE	Helarctos malayanus	Omnivore	3.25	25
FELIDAE	Prionailurus bengalensis	Carnivore	2.93	26
MUSTELIDAE	Aonyx cinereus	Carnivore	1.54	27
MEPHITIDAE	Mydaus javanensis	Carnivore	0.37	28
MANIDAE	Manis javanica	Carnivore	-2.55	29

**Table S9.9 Mixed (K4b: number of species  $22 \pm 1.3$ )**

Family	Species	Trophic	Kv	Rank
SCIURIDAE	Callosciurus notatus	Omnivore	8.61	1
CYNOCEPHALIDAE	Galeopterus variegatus	Herbivore	7.58	2
SCIURIDAE	Callosciurus prevostii	Herbivore	7.58	3
LORISIDAE	Nycticebus menagensis	Omnivore	7.54	4
VIVERRIDAE	Paradoxurus hermaphroditus	Omnivore	7.17	5
HYSTRICIDAE	Hystrix brachyura	Herbivore	6.97	6
TRAGULIDAE	Tragulus kanchil	Herbivore	6.66	7
CERVIDAE	Muntiacus muntjak	Herbivore	6.30	8
CERCOPITHECIDAE	Macaca fascicularis	Omnivore	6.29	9
VIVERRIDAE	Paguma larvata	Omnivore	6.01	10
CERCOPITHECIDAE	Macaca nemestrina	Omnivore	5.87	11
CERCOPITHECIDAE	Presbytis frontata	Herbivore	5.85	12
CERCOPITHECIDAE	Presbytis rubicunda	Herbivore	5.80	13
TARSIIDAE	Cephalopachus bancanus	Carnivore	5.24	14
TRAGULIDAE	Tragulus napu	Herbivore	5.06	15
SUIDAE	Sus barbatus	Omnivore	5.04	16
CERVIDAE	Rusa unicolor	Herbivore	4.86	17
HYLOBATIDAE	Hylobates albibarbis	Omnivore	4.84	18
URSIDAE	Helarctos malayanus	Omnivore	4.71	19
FELIDAE	Prionailurus bengalensis	Carnivore	4.14	20
HOMINIDAE	Pongo pygmaeus	Omnivore	3.66	21
MUSTELIDAE	Aonyx cinereus	Carnivore	2.62	22
MANIDAE	Manis javanica	Carnivore	-1.73	23

**Table S9.10 Mixed (K4c: number of species  $13 \pm 1.0$ )**

Family	Species	Trophic	Kv	Rank
SCIURIDAE	Callosciurus notatus	Omnivore	13.92	1
HERPESTIDAE	Herpestes brachyurus	Omnivore	12.78	2
VIVERRIDAE	Viverra zangalla	Omnivore	11.65	3
CERCOPITHECIDAE	Macaca fascicularis	Omnivore	11.37	4
CERVIDAE	Muntiacus muntjak	Herbivore	10.91	5
CERCOPITHECIDAE	Macaca nemestrina	Omnivore	10.89	6
HYSTRICIDAE	Hystrix brachyura	Herbivore	10.78	7
HYLOBATIDAE	Hylobates muelleri	Omnivore	10.40	8
URSIDAE	Helarctos malayanus	Omnivore	9.47	9
CERVIDAE	Rusa unicolor	Herbivore	9.47	10
SUIDAE	Sus barbatus	Omnivore	9.40	11
TRAGULIDAE	Tragulus napu	Herbivore	9.38	12
FELIDAE	Prionailurus bengalensis	Carnivore	8.34	13
MUSTELIDAE	Aonyx cinereus	Carnivore	7.01	14