

SURVEY BY RECCE WALK/TRANSECT LINE 2016

Recce walk/transect line is one of the method used by wildlife survey team for wildlife monitoring activities. There are four (04) permanent transect line based on each forest reserve in Ulu Kalumpang-Wullersdorf SFM Project area (Ulu Kalumpang Forest Reserve, Wullersdorf Forest Reserve, Kalumpang Forest Reserve and Madai Baturong Forest Reserve) for data collection by identifying wildlife trace including footprints, sound, direct sightings and scratching marks.

1. ULU KALUMPANG FOREST RESERVE

NO.	SPECIES	SCIENTIFIC NAME	QUARTER 1 (JAN-MARCH) 2016	QUARTER 2 (APR-JUNE) 2016	QUARTER 3 (JULY-SEPT) 2016	QUARTER 4 (OCT-DEC) 2016	SUB TOTAL	TOTAL TRANSECT DISTANCE SURVEY FOR YEAR 2016	Index = N/DISTANCE	INDEX (%) = N/TOTAL DETECTION OF ALL SPECIES
01.	Bornean Pygmy Elephant	<i>Elephas maximus</i>	3	0	1	0	4	8	0.50	4.9
02.	Wild Pig/Bearded Pig	<i>Sus barbatus</i>	6	21	13	16	56	8	7.00	69.1
03.	Lesser Mouse Deer	<i>Tragulus javanicus</i>	1	3	0	0	4	8	0.50	4.9
04.	Banteng	<i>Bos javanicus</i>	2	0	0	0	2	8	0.25	2.5
05.	Sambar Deer	<i>Cervus unicolor</i>	1	2	3	0	6	8	0.75	7.4

06.	Sun Bear	<i>Helarctos malayanus</i>	1	1	0	0	2	8	0.25	2.5
07.	Bornean Yellow Muntjac	<i>Muntiacus atherodes</i>	0	0	1	0	1	8	0.13	1.2
08.	Black Squirrel	<i>Sciurus spp.</i>	0	1	0	0	1	8	0.13	1.2
09.	Bornean Gibbon	<i>Hylobates muelleri</i>	0	1	0	1	2	8	0.25	2.5
10.	Malay Badger	<i>Mydaus javanensis</i>	0	2	0	0	2	8	0.25	2.5
11.	Pig-tailed Macaque	<i>Macaca nemestrina</i>	0	0	1	0	1	8	0.13	1.2
TOTAL:			14	31	19	17	81	8	10.13	100

Table 1. show wildlife index percentages recorded through “Recce Walk” research method in Ulu Kalumpang FR for the year of 2016

Table 1. show frequency number of wildlife recorded in Ulu Kalumpang Forest Reserve area from January - December 2016 where total of wildlife found is 81. Summary of the analysis from our survey data are as follows:

(a) Wildlife Index (Index = N (Number of wildlife detected)

Distance survey

(b) Wildlife Index (Index (%) = N (Number of wildlife detected $\times 100$)

Total detection of all species

In the calculation, distance survey used for half year of 2016 (January-December) is 8km while the total detection of all species is 81.

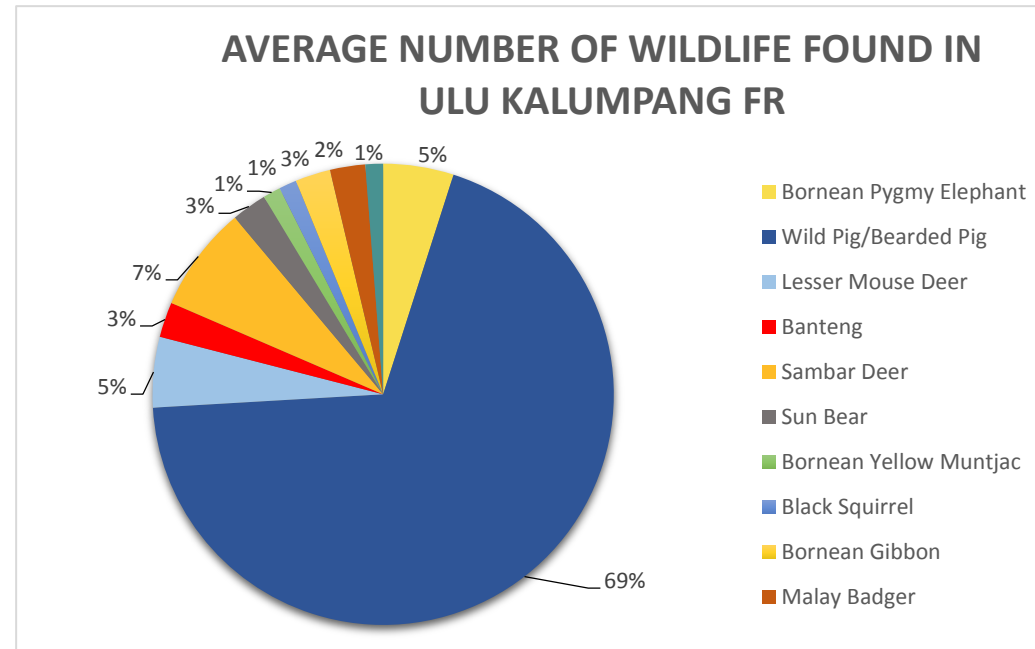


Figure 1. Chart shown Wildlife Index percentage recorded through "Recce Walk" in Ulu Kalumpang FR for year of 2016

Figure 1. shows wildlife index percentage for average number of wildlife found in Ulu Kalumpang Forest Reserve were recorded for total of a year (January-December) 2016. The most active wildlife species that found in that period recorded is Wild Pig (*Sus barbatus*) where the index of percentage is 69% which is higher compare to other species in the forest reserve area.

2. MT. WULLERSDORF FOREST RESERVE

NO.	SPECIES	SCIENTIFIC NAME	QUARTER 1 (JAN-MARCH) 2016	QUARTER 2 (APR-JUNE) 2016	QUARTER 3 (JULY-SEPT) 2016	QUARTER 4 (OCT-DEC) 2016	SUB TOTAL	TOTAL TRANSECT DISTANCE SURVEY FOR YEAR 2016	Index = N/DISTANCE	INDEX (%) = N/TOTAL DETECTION OF ALL SPECIES
01.	Wild Pig/Bearded Pig	<i>Sus barbatus</i>	3	8	10	5	26	8	3.25	66.67
02.	Lesser Mouse Deer	<i>Tragulus javanicus</i>	1	0	1	0	2	8	0.25	5.13
03.	Sambar Deer	<i>Cervus unicolor</i>	1	1	1	0	3	8	0.38	7.69
04.	Greater Mouse Deer	<i>Tragulus napu</i>	2	1	0	0	3	8	0.38	7.69
05.	Bornean Yellow Muntjac	<i>Muntiacus atherodes</i>	1	0	0	0	1	8	0.13	2.56
06.	Giant Squirrel	<i>Ratufa affinis</i>	1	0	0	0	1	8	0.13	2.56
07.	Bornean Gibbon	<i>Hylobates muelleri</i>	0	1	0	2	3	8	0.38	7.69
TOTAL:			9	11	12	7	39	8	4.88	100

Table 2. show wildlife index percentages recorded through “Recce Walk” research method in Mt. Wullersdorf FR for the year of 2016

Table 2. show frequency number of wildlife recorded in Mt. Wullersdorf Forest Reserve area from January - December 2016 where total of wildlife found is 39. Summary of the analysis from our survey data are as follows:

a) Wildlife Index (Index = N (Number of wildlife detected)

Distance survey

(b) Wildlife Index (Index (%) = N (Number of wildlife detected X 100)

Total detection of all species

In the calculation, distance survey used for half year of 2016 (January-December) is 8km while the total detection of all species is 39.

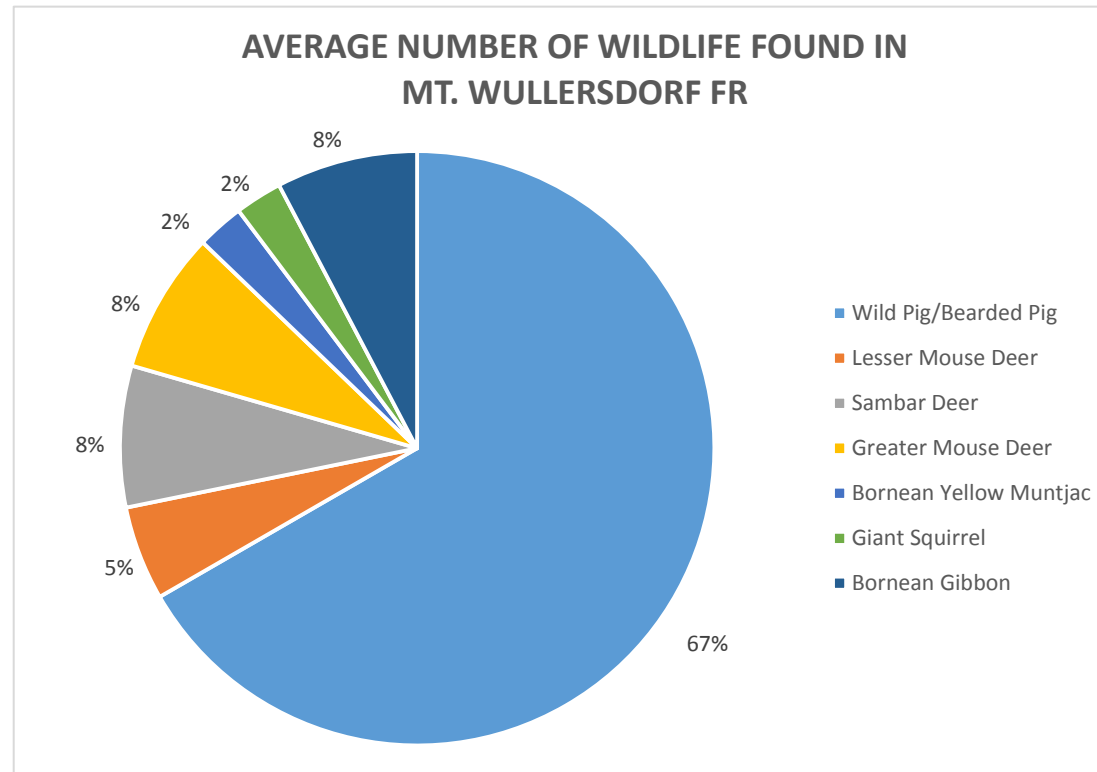


Figure 2. Chart shown Wildlife Index percentage recorded through "Recce Walk" in Mt. Wullersdorf FR for year 2016

Figure 2. shows wildlife index percentage for average number of wildlife found in Mt. Wullersdorf Forest Reserve were recorded for total of a year (January-December) 2016. The most active wildlife species that found in that period recorded is Wild Pig (*Sus barbatus*) where the index of percentage is 67% which is higher compare to other species in the forest reserve area.

3. KALUMPANG VJR107 FOREST RESERVE

NO.	SPECIES	SCIENTIFIC NAME	QUARTER 1 (JAN-MARCH) 2016	QUARTER 2 (APR-JUNE) 2016	QUARTER 3 (JULY-SEPT) 2016	QUARTER 4 (OCT-DEC) 2016	SUB TOTAL	TOTAL TRANSECT DISTANCE SURVEY FOR YEAR 2016	Index = N/DISTANCE	INDEX (%) = N/TOTAL DETECTION OF ALL SPECIES
01.	Wild Pig/Bearded Pig	<i>Sus barbatus</i>	0	11	17	13	41	8	5.13	74.55
02.	Lesser Mouse Deer	<i>Tragulus javanicus</i>	0	0	1	1	2	8	0.25	3.64
03.	Sambar Deer	<i>Cervus unicolor</i>	0	1	1	3	5	8	0.63	9.09
04.	Bornean Gibbon	<i>Hylobates muelleri</i>	0	3	1	1	5	8	0.63	9.09
05.	Sun Bear	<i>Helarctos malayanus</i>	0	1	0	0	1	8	0.13	1.82
06.	Long-tailed Macaque	<i>Macaca fascicularis</i>	0	0	0	1	1	8	0.13	1.82
TOTAL:			0	16	20	19	55	8	6.88	100

Table 3. show wildlife index percentages recorded through "Recce Walk" research method in Kalumpang VJR107 FR for the year of 2016

Table 3. show frequency number of wildlife recorded in Kalumpang VJR107 Forest Reserve area from January - December 2016 where total of wildlife found is 55. Summary of the analysis from our survey data are as follows:

a) Wildlife Index (Index = N (Number of wildlife detected)

Distance survey

(b) Wildlife Index (Index (%)) = N (Number of wildlife detected $\times 100$)

Total detection of all species

In the calculation, distance survey used for half year of 2016 (January-December) is 8km while the total detection of all species is 55.

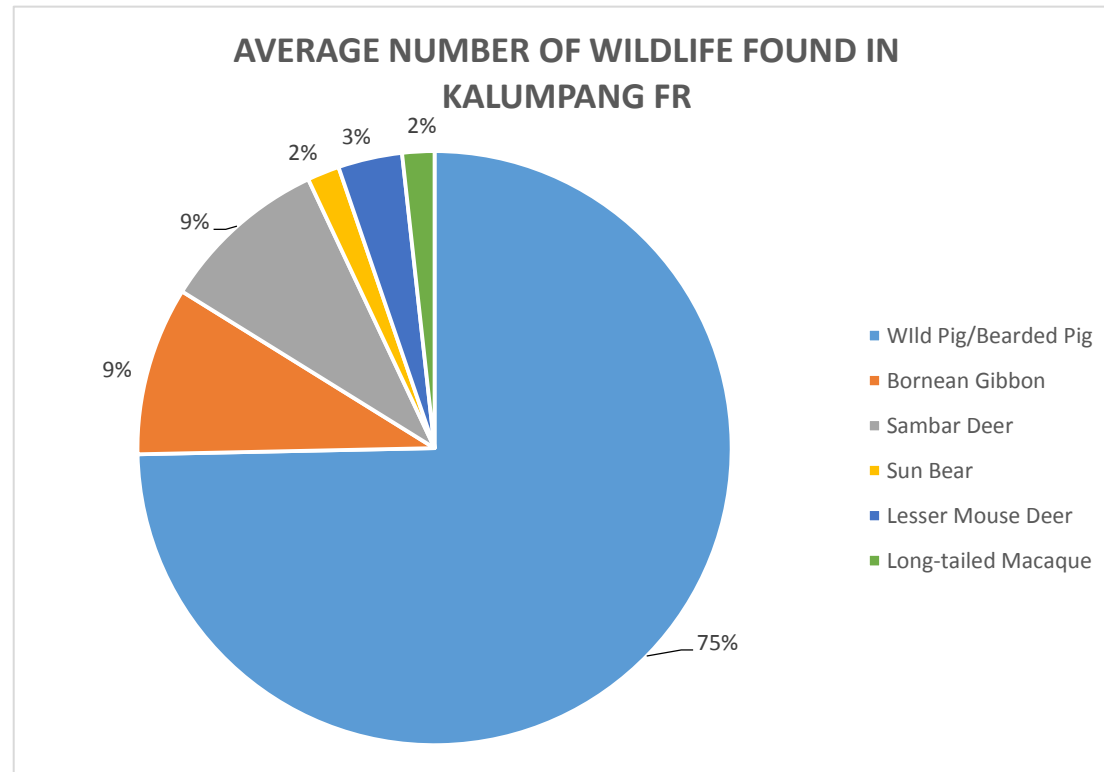


Figure 3. Chart shown Wildlife Index percentage recorded through “Recce Walk” in Kalumpang VJR107 FR for year 2016

Figure 3. shows wildlife index percentage for average number of wildlife found in Kalumpang VJR107 Forest Reserve were recorded for total of a year (January-December) 2016. The most active wildlife species that found in that period recorded is Wild Pig (*Sus barbatus*) where the index of percentage is 75% which is higher compare to other species in the forest reserve area.

4. MADAI BATURONG FOREST RESERVE

NO.	SPECIES	SCIENTIFIC NAME	QUARTER 1 (JAN-MARCH) 2016	QUARTER 2 (APR-JUNE) 2016	QUARTER 3 (JULY-SEPT) 2016	QUARTER 4 (OCT-DEC) 2016	SUB TOTAL	TOTAL TRANSECT DISTANCE SURVEY FOR YEAR 2016	Index = N/DISTANCE	INDEX (%) = N/TOTAL DETECTION OF ALL SPECIES
01.	Wild Pig/Bearded Pig	<i>Sus barbatus</i>	0	8	11	12	31	8	3.88	72.09
02.	Sambar Deer	<i>Cervus unicolor</i>	0	2	1	3	6	8	0.75	13.95
03.	Treeshrew	<i>Tupaia tana</i>	0	1	0	0	1	8	0.13	2.33
04.	Pig-tailed Macaque	<i>Macaca nemestrina</i>	0	0	2	1	3	8	0.38	6.98
05.	Long-tailed Macaque	<i>Macaca fascicularis</i>	0	0	0	2	2	8	0.25	4.65
TOTAL:			0	11	14	18	43	8	5.38	100

Table 4. show wildlife index percentages recorded through “Recce Walk” research method in Madai Baturong FR for the year of 2016

Table 4. show frequency number of wildlife recorded in Madai Baturong Forest Reserve area from January - December 2016 where total of wildlife found is 43. Summary of the analysis from our survey data are as follows:

a) Wildlife Index (Index = N (Number of wildlife detected)

Distance survey

(b) Wildlife Index (Index (%)) = $\frac{N \text{ (Number of wildlife detected)}}{\text{Total detection of all species}} \times 100$

Total detection of all species

In the calculation, distance survey used for half year of 2016 (January-December) is 8km while the total detection of all species is 43.

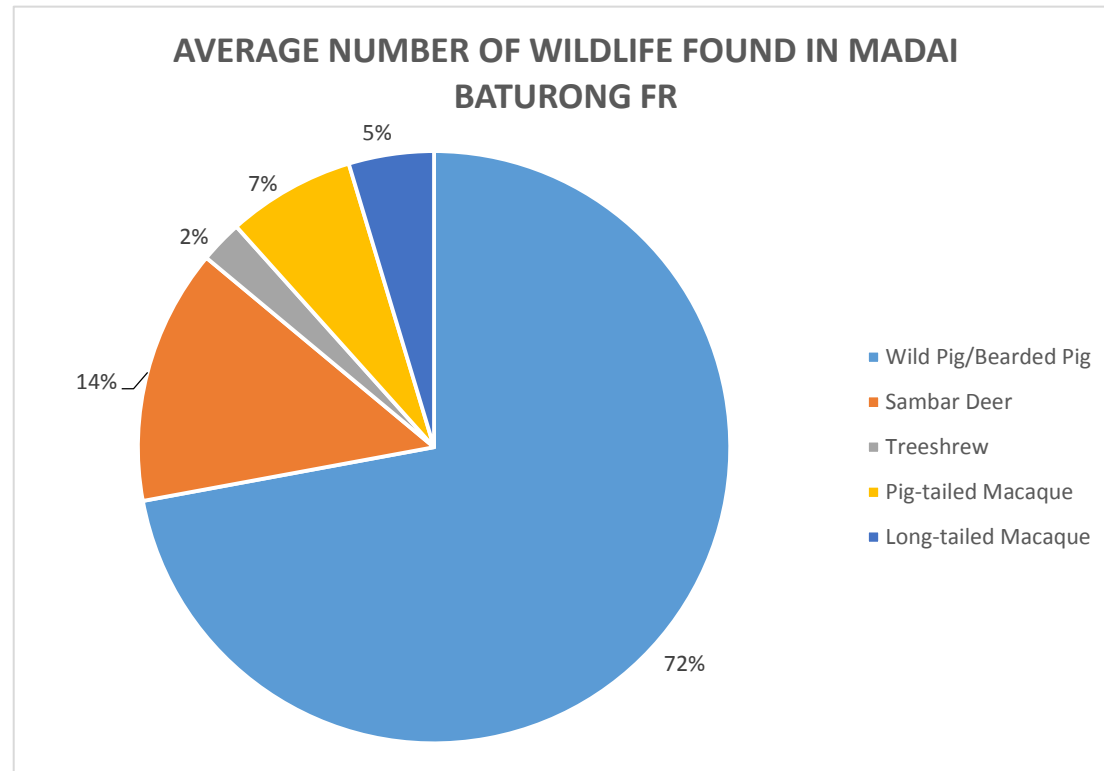


Figure 4. Chart shown Wildlife Index percentage recorded through “Recce Walk” in Madai Baturong FR for year 2016

Figure 3. shows wildlife index percentage for average number of wildlife found in Madai Baturong Forest Reserve were recorded for total of a year (January-December) 2016. The most active wildlife species that found in that period recorded is Wild Pig (*Sus barbatus*) where the index of percentage is 72% which is higher compare to other species in the forest reserve area.