



**ENHANCING CONSERVATION AND
MITIGATING HUMAN-WILDLIFE CONFLICTS**

21 -23 NOVEMBER 2016

FOUR POINTS BY SHERATON, SANDAKAN, SABAH

**HUMAN-WILDLIFE
CONFLICT IN
PENINSULAR MALAYSIA
– CURRENT STATUS AND
OVERVIEW**

*Salman Saaban, Abdullah Zawawi Yazid, Abdul
Rahman Mustapa & Charles Keliang
Department of Wildlife and National Parks
Ministry of Natural Resources and Environment*



Malaysia's Biodiversity
My Life, My Heritage, My Future
www.nre.gov.my



PRESENTATION OUTLINE

- ❑ MAIN FACTORS CONTRIBUTE TO HWC
- ❑ STATUS OF WILDLIFE DISTURBANCE COMPLAINTS
- ❑ TYPES & IMPACTS OF HWC
- ❑ CONFLICT MANAGEMENT
- ❑ LONGTERM STRATEGIES
- ❑ RECOMMENDATIONS

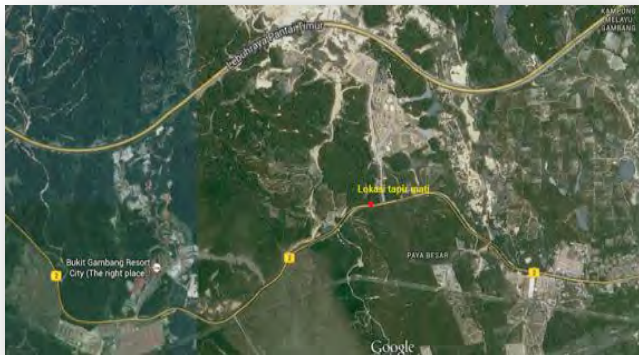
MAIN FACTORS CONTRIBUTE TO HWC



Habitat loss



Garbage system



Degraded & fragmented habitat

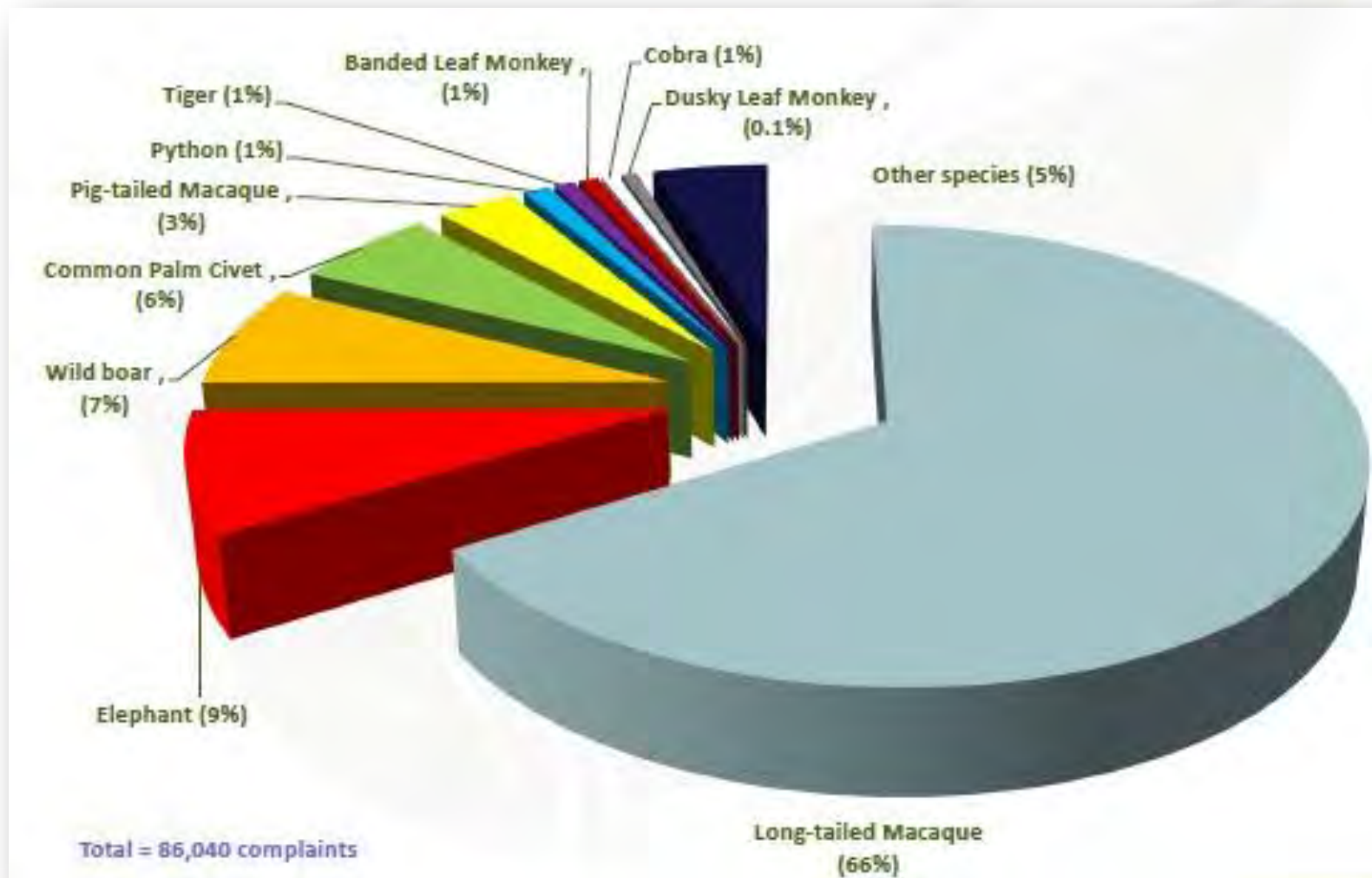


Poaching



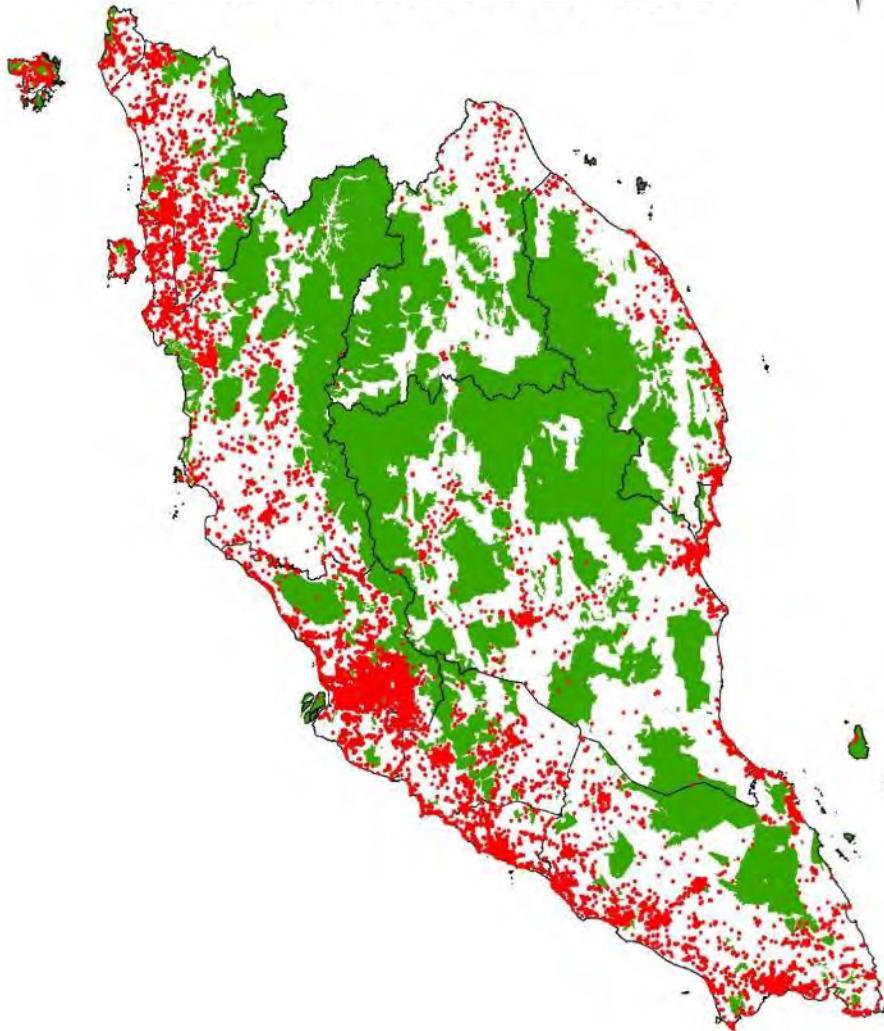
Wildlife feeding

STATUS OF WILDLIFE DISTURBANCE COMPLAINTS



No. of HWC complaints (2006 – 2015)

HMC distribution (2006 – 2015)



Petunjuk

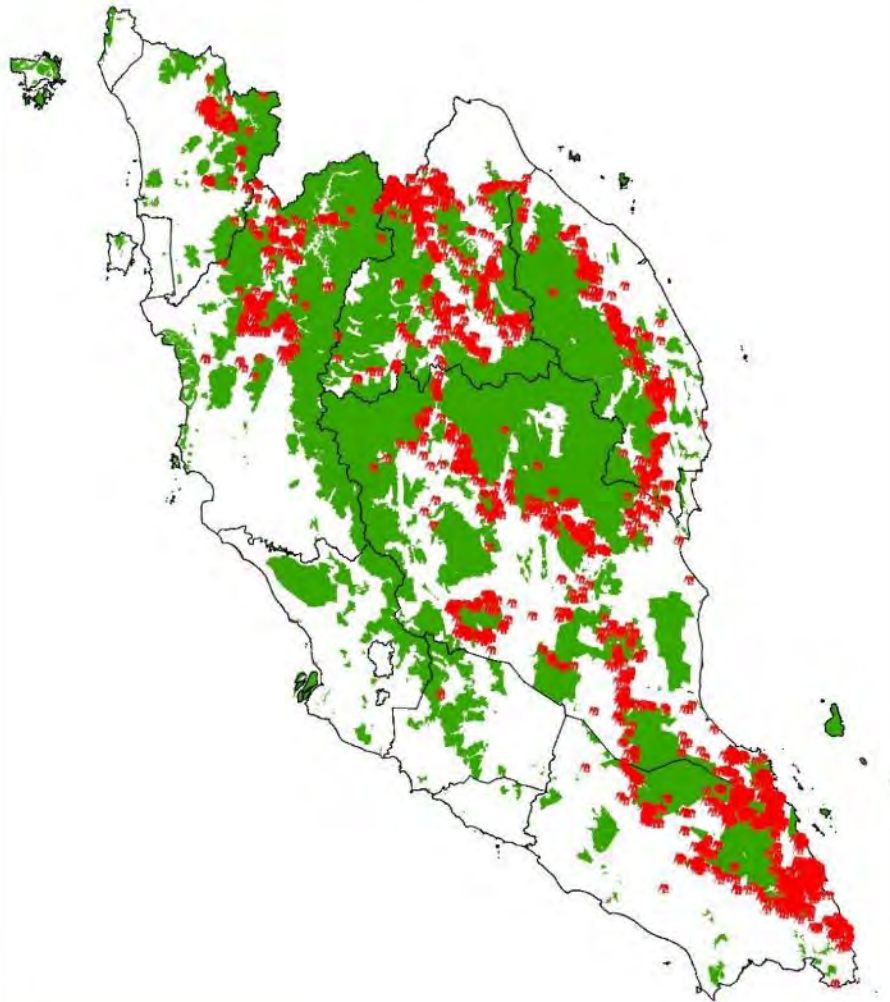
- Hutan
- Sempadan negeri
- Lokasi aduan gangguan kera

0 15 30 60 90 120 Kilometers

HUMAN-LONG-TAILED MACAQUE CONFLICT (HMC) HOTSPOT

- Pulau Pinang (Seberang Prai Selatan, Timur Laut & Barat Daya)
- Perak (Kerian, Kinta, Hilir Perak, Batang Padang & Larut Matang)
- Selangor (Petaling, Klang, Gombak, Kuala Langat & Kuala Selangor)
- WP Kuala Lumpur (Segambut, Lembah Pantai, Bandar Tun Razak)
- N. Sembilan (Port Dickson, Seremban, Tampin & Kuala Pilah)
- Melaka (Melaka Tengah)
- Johor (Muar, Batu Pahat, Pontian & Johor Bahru)
- Kedah (Baling, Langkawi, Kuala Muda & Kubang Pasu)

HEC distribution (2006 – 2015)



Petunjuk

- Hutan
- negeri
- Lokasi aduan gangguan gajah

0 20 40 80 120 160 Kilometers

HEC HOTSPOT AREA (2006 – 2015)

- 7 states
- Johor (Mersing, Kota Tinggi, Kluang & Segamat) – 31%
- Pahang (Rompin, Jerantut, Lipis & Bentong) – 23%
- Kelantan (Jeli, Gua Musang & Kuala Krai) – 15%
- Terengganu (Hulu Terengganu, Kemaman, Setiu & Dungun) – 14%
- Perak (Hulu Perak & Kuala Kangsar) -13%
- Kedah (Padang Terap, Baling & Sik) – 4%
- N. Sembilan (Jelevu) – 0.1%

Budak mati dibaham 2 harimau belang



GUA MUSANG: Seorang budak lelaki berusia 13 tahun mati dibaham dua harimau belang ketika mengembara di kawasan Kemah di Ladang Rancangan Kemah di Ladang Rancangan Kemah di Ladang Rancangan Kemah di Ladang Rancangan Kemah...



Buruh ladang cedera diserang dua beruang

SUKANGTU yang diserang dua beruang ketika bekerja di sebuah ladang kelapa sawit di Kampung Seri Parka, Hutan Melintang Uni di bawah di Hospital Sabak Bernam...

BUDAK DISERANG BABI HUTAN

KUALA TERENGGANU: Seorang budak lelaki berusia 10 tahun diserang oleh seekor babi hutan ketika bermain di sebuah ladang kelapa sawit di kawasan...

Pelajar retak lengan lepas nampak harimau

LENGGONG: Pelajar Tahun Satu Universiti Teknologi Mara (UiTM) Seri Iskandar, retak lengan selepas melihat seekor harimau...

Kanak-kanak 'dicium' ular meninggal dunia

PENDANG 20 April - Seorang kanak-kanak berusia 18 bulan yang 'dicium' oleh seekor ular katam timah berbisa bertarung nyawa tidak sedarkan diri di Unit Rawatan Rapi (ICU) Hospital Alor Star...

TYPES & IMPACTS OF HWC

Gajah renek se nenek serby monkey

Oleh D J Dolasoh
LENGGONG, Khamis - Seorang renek yang sedang menyakit tidur terselamat selepas rumahnyanya dirampas seekor gajah liar, dipercayai untuk mencari makaman, di Kampung Gajah, kira-kira lapan kilometer dari sini awal pagi semalam.
Suyah Miti, 60, yang tinggal seorang diri disela-makan jiran yang mendamaikan jeritan meminta kiralong dalam kejadian kira-kira jam 1 pagi itu.
Iraannya, Halijah Doh, 64, berkata beliau terdengar jeritan Suyah meminta tolong ketika gajah sedang menyondol rumahnyanya sehingga sebahagian daripadanya hancur runtuh. Daerah Jasin, Suaminya. Daerah Jasin...



ON THE MEND: Kam Seng recuperating at the University Malaya Medical Centre yesterday after he was attacked by a monkey on Wednesday.

BABI MASJID

Ameng, 10 sebatan
...antara babi dalam keadaan...
...masuk ke dalam masjid...
...sekelompok jemaah yang baru sahaja selesai menamatkan solat...
...Zohor gempus apabila puluhlah babi...
...Kampung Kajang, Pasir Mas...
...petang kemari



Harimau: Penduduk Padang Rumbia, Temai hidup dalam ketakutan

PEKAN 17 Okt. - Penduduk kawasan Padang Rumbia hingga Temai di sini hidup dalam ketakutan sejak beberapa minggu lalu kerana diganggu oleh dua spesies harimau yang berlainan.
Penghulu Mukim Pulau Manis, Sallehudin Kassim berkata, beberapa penduduk kampung mendakwa pernah terserempak dengan seekor harimau bintang dan seekor harimau belang bersama anaknya di kawasan berkenaan.
Kedua itu kata beliau, menyebabkan kebanyakan penduduk yang terdiri daripada penoreh getah dan kebun kecil kini takut untuk keluar mencari rezeki kerana bimbang dibaham harimau berkenaan.
Jelas beliau, walaupun belum ada manusia yang menjadi mangsa, namun ketakutan tetap menyelubungi penduduk sekitar setelah terlibat tiga ekor haiwan berkenaan dilihat di kawasan itu.
"Sejak beberapa minggu ini, sudah dua ekor lembu penduduk kampung dibaham harimau-harimau berkenaan," katanya ketika ditemui, di sini hari ini.
Jelas Sallehudin, haiwan-haiwan berkenaan bergerak secara beransang dan tidak diketahui jenis yang mana membaham lembu penduduk.
Katanya, pihak Jabatan Perlindungan Hidupan Liar dan Taman Negara (Perhilitan) telah dimaklumkan berkenaan hal itu dan beberapa pegawai telah dihantar untuk meninjau.
Namun katanya, belum ada sebarang perangkap dipasang kerana masalah kos umpan.
Tambah beliau, kejadian harimau membaham ternakan memang berlaku antara dua hingga tiga tahun sekali di kawasan berkenaan.
Penduduk kampung juga katanya, belum membuat sebarang laporan polis berkenaan hal itu.

Crop damage

Estimated of losses due to HEC (2007-2015)



Wildlife attacks

Killer monkey

abducts, bites and drops baby from roof



In grief

Menangis kerana bergegas bawa jenazah

Kelantan schoolgirl, 7, dies of snake bite

TIGA BANGSA A 7-year-old girl who died of a snake bite in Kelantan today, the school's principal said. The girl, who was in the third grade, was bitten by a snake while playing in the schoolyard. She was taken to the hospital but died after several hours of treatment. The school principal expressed his grief and said that the school would hold a memorial service for the girl. The incident has caused a stir in the community, with many people expressing concern about the safety of children in rural areas.



Nori Nurfarah Baiduri died of a snake bite in Kelantan. She was 7 years old. Her family is shown in the background.

Pencari madu lebah cedera dicakar beruang

Oleh ROSMIZAN RESDI



TAMBAH MERAH TO API - Seorang pencari madu lebah cedera kerana dicakar oleh seekor beruang ketika sedang mencari madu di kawasan hutan. Kejadian berlaku di kawasan hutan di daerah Kota Bharu, Kelantan. Penderita, yang dikenali sebagai Hassan, mengalami luka-luka akibat serangan beruang tersebut. Beliau kini dirawat di hospital. Kejadian ini menimbulkan kepedulian masyarakat setempat mengenai keselamatan pencari madu di kawasan hutan.

2 setempat



Monyet 'bahami' betis

MP QUINTA Seorang gadis berusia 7 tahun mengalami kecederaan akibat serangan monyet. Kejadian berlaku di kawasan hutan di daerah Kota Bharu, Kelantan. Gadis tersebut mengalami luka-luka akibat serangan monyet tersebut. Beliau kini dirawat di hospital. Kejadian ini menimbulkan kepedulian masyarakat setempat mengenai keselamatan penduduk di kawasan hutan.

Boy dies in wild elephant attack

Tragedy befalls family when jumbo suddenly rams into dad's motorcycle



BOY DIES A young boy died in a wild elephant attack in Kelantan today. The tragedy occurred when a large elephant suddenly rams into the father's motorcycle while the family was riding through a forest. The boy was killed on the spot. The incident has caused a great deal of grief and concern among the community. The family is currently in mourning. The incident highlights the dangers of riding motorcycles in forested areas.

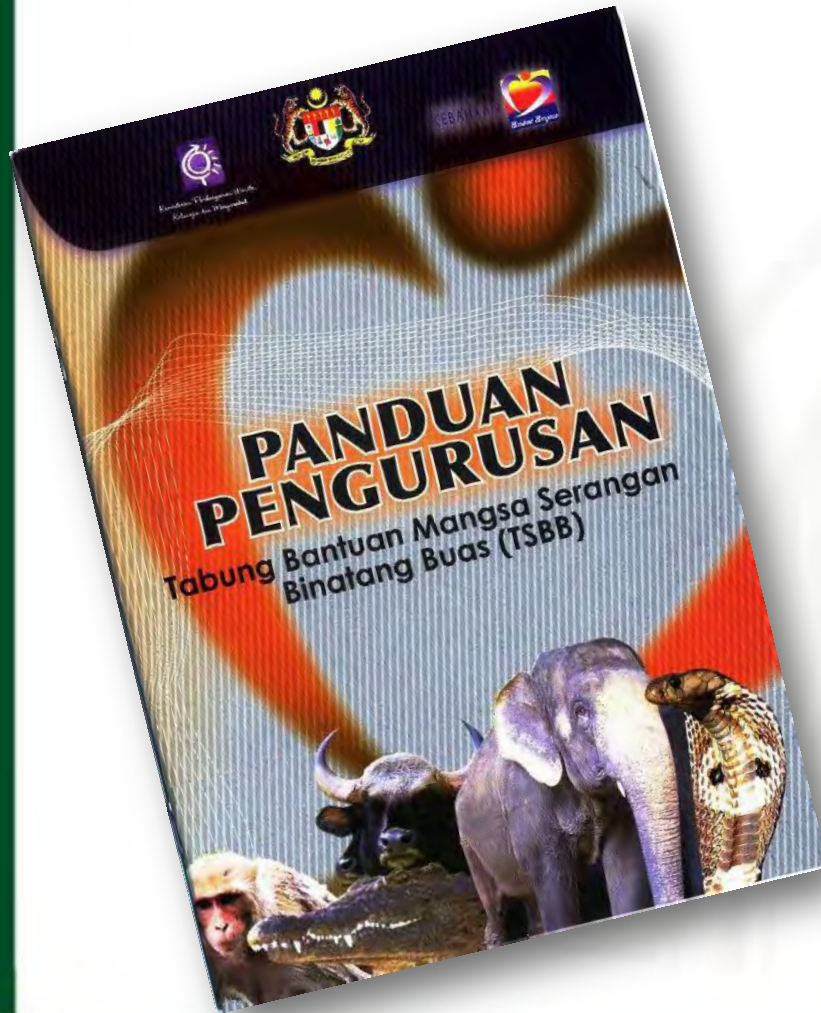


Wildlife attacks

Record on wildlife attacks in Peninsular Malaysia (2004 – 2015)

| GROUP OF SPECIES | STATUS OF VICTIMS | | TOTAL |
|------------------|-------------------|-------------|---------------|
| | INJURY | FATALITY | |
| Snakes | 493 | 12 | 505 |
| Wild boar | 90 | 9 | 99 |
| Primates | 91 | 1 | 92 |
| Elephant | 20 | 9 | 29 |
| Bees/hornets | 15 | 14 | 29 |
| Tiger | 7 | 2 | 9 |
| Sun Bear | 7 | - | 7 |
| Leopard | 4 | - | 4 |
| Gaur | 1 | 1 | 2 |
| Crocodile | 2 | - | 2 |
| Monitor Lizard | 2 | - | 2 |
| Leopard Cat | 1 | - | 1 |
| TOTAL | 733 | 48 | 781 |
| % | 93.85 | 6.15 | 100.00 |

Wildlife attacks



WILDLIFE ATTACK AID FUND

- Initiated in 2005
- Managed by Dept. of Social Welfare.
- Management Committee:
Chaired by Sec. Gen. Ministry of Women, Family and Community Development
- DWNP as a member.

Jabatan
KEBAJIKAN
Masyarakat



My Life, My Heritage,
www.nre.gov.my



Kementerian Pembangunan
Wanita, Keluarga dan Masyarakat

Livestock depredation



Kg. Jambu Bongkok, Marang, Terengganu



Kg. Mungkai Seberang, Kuala Pilah, N. Sembilan



Deer Farm, Kg. Sumpitan, Lenggong, Perak



Sheep Farm, FELDA Titi, N. Sembilan



Kg. Bayai Baru, Bt. Kikir, N. Sembilan

Livestock depredation

Losses due to livestock depredation (2007-2015)

| STATE | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL LOSS (RM) |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| Terengganu | 60,380 | 7,410 | 32,340 | 36,380 | 57,600 | 27,220 | 19,500 | 3,760 | 39,650 | 284,240 |
| N. Sembilan | - | - | - | 4,500 | 5,200 | 2,350 | 3,730 | 57,090 | 4,300 | 77,170 |
| Pahang | 6,650 | 10,600 | 12,200 | 3,069 | 7,285 | 6,355 | 1,200 | 5,666 | 5,500 | 58,524 |
| Johor | 5,050 | 9,192 | 21,002 | 6,805 | 40 | 100 | - | 3,150 | - | 45,339 |
| Perak | 2,500 | - | 1,510 | 9,000 | 150 | 13,420 | 2,000 | - | - | 28,580 |
| Kelantan | 10,500 | 1,140 | 3,000 | 3,000 | 3,000 | 1,900 | 2,500 | 2,350 | 1,100 | 28,490 |
| Kedah | 3,700 | 8,800 | 650 | 400 | 3,500 | 1,110 | 500 | 710 | 10 | 19,380 |
| Melaka | - | - | - | - | - | - | - | 3,000 | 2,000 | 5,000 |
| Selangor | - | - | - | - | - | 1,550 | - | 700 | - | 2,250 |
| W. Persekutuan | 300 | - | - | - | - | 75 | - | 100 | 135 | 610 |
| P. Pinang | 300 | - | - | - | 50 | - | - | - | 100 | 450 |
| Perlis | - | - | - | - | - | - | 200 | - | - | 200 |
| TOTAL LOSS (RM) | 89,380 | 37,142 | 70,702 | 63,154 | 76,825 | 54,080 | 29,630 | 76,526 | 52,795 | 550,233 |

Create fears / negative perception

16 BH

SUARA KOMUNITI

Gajah sekat rezeki
Penduduk takut keluar menoreh, terserempak haiwan liar di sekitar kampung

Diambil dari: www.bh.com.my

Diambil dari: www.bh.com.my

6 Khamis, 26 April 2012 Setempat

Mati trauma harimau
Pelajar 16 tahun meninggal dunia tiga bulan selepas dikejar dua pak belang harimau

Diambil dari: www.harianmetro.com.my

Babi hutan ancam penduduk
Jadual kutipan sampah tidak teratur punca haiwan liar berkeliaran

Diambil dari: www.harianmetro.com.my

Resah dianca haiwan liar
Penduduk bimbang belukar terbiar jadi habitat biawak, babi hutan

Diambil dari: www.harianmetro.com.my

Bimbang ancaman babi hutan
Rosakkan tanaman dan mengganggu kehidupan penduduk Parit Kadzi

Diambil dari: www.harianmetro.com.my

Certa anda Certa kami

myBioD
Malaysia's Biodiversity
My Heritage, My Future
www.nre.gov.my



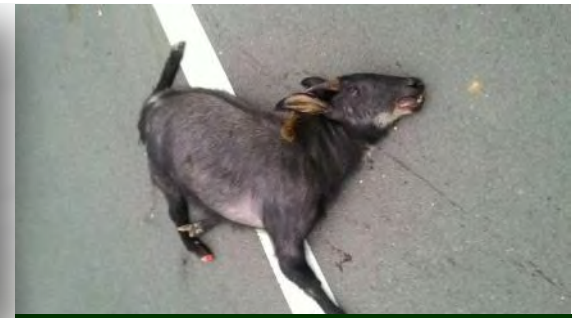
Wildlife road-kills



Date: 28 Jan. 2015
Loc.: Bdr. Penawar- Tg. Balau road, Kota Tinggi, Johor



Date: 30 April 2013
Loc.: KM 46, Aring – K. Berang road



Date: 26 Feb. 2016
Loc.: Chegar Perah, Lipis , Pahang



Date: 25 Mac 2015
Loc.: FELDA Sg. Tenggi, Selangor



Date: 6 Feb. 2016
Loc.: LPT2, Kemaman, Terengganu



Date: 25 April 2016
Loc.: Sg. Deka road, Hulu Terengganu



Date: 9 Jul. 2007
Loc.: Jelawang – Meranto road, G. Musang, Kelantan



Date: 30 May 2011
Loc.: Aring – K. Berang road



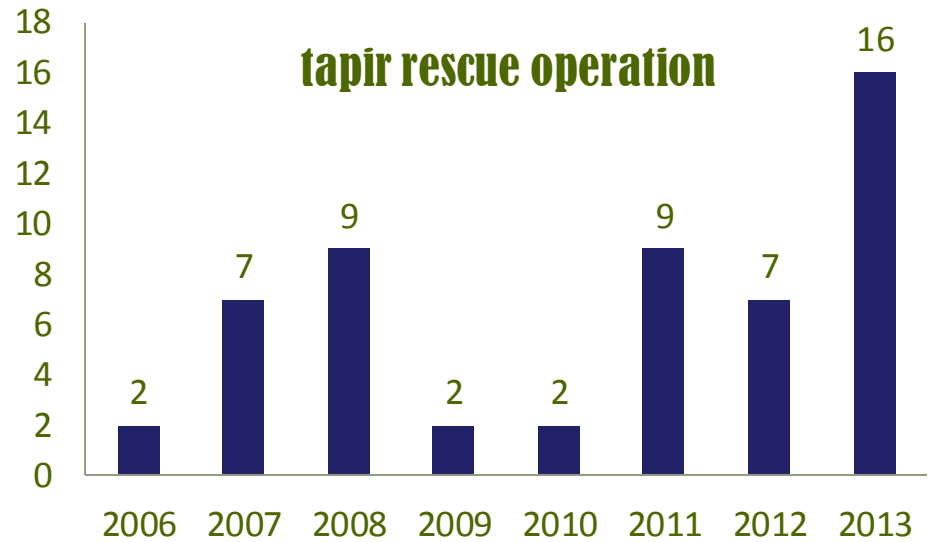
Date: 8 April 2016
Loc.: KLIA Road

Wildlife road-kills record (2011-2015)

| STATE | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL | % |
|---------------|------------|------------|------------|------------|------------|--------------|------------|
| Perak | 100 | 58 | 60 | 83 | 91 | 392 | 21.97 |
| Johor | 16 | 78 | 99 | 113 | 90 | 396 | 22.20 |
| Kedah | - | - | 126 | 192 | 98 | 416 | 23.32 |
| Kelantan | 27 | 8 | 1 | 6 | 6 | 48 | 2.69 |
| Terengganu | 1 | 43 | 35 | 26 | 64 | 169 | 9.47 |
| Pahang | 20 | 15 | 2 | 11 | 2 | 50 | 2.80 |
| Selangor | 3 | 63 | 25 | 9 | 0 | 100 | 5.61 |
| N. Sembilan | - | - | 9 | 24 | 77 | 110 | 6.17 |
| Perlis | 6 | - | 23 | 20 | 14 | 63 | 3.53 |
| Melaka | - | - | 10 | 15 | 6 | 31 | 1.74 |
| P.Pinang | - | - | - | 3 | 5 | 8 | 0.45 |
| W.Persekutuan | - | 1 | - | - | - | 1 | 0.06 |
| TOTAL | 173 | 266 | 390 | 502 | 453 | 1,784 | 100 |

Wildlife displacement

- 2006 - 2013: 54 Tapirs were rescued
- 19 Tapir Conservation Centre
- 18 released back to the wild
- 10 send to Malacca Zoo
- 7 died due to severe injury
- 45.3% male and 54.7% female



Trapped in abandon hole Sg. Yu (27/12/2013)



Hit by lorry at Kg. Baru, Jerantut (17/12/2013)

CONFLICT MANAGEMENT

Elephant Translocation Program

- ❑ Prior to 1974, elephants were legally killed to overcome HEC
- ❑ 1964 – 1974: 120 elephants @ 12 elephants killed/year.
- ❑ 1974 elephant killing banned & Elephant Management Unit (EMU) established.
- ❑ 1st capture at FELDA Jengka 7 (11th May 1974)
- ❑ Since 1974: > 800 conflict elephants captured
- ❑ Relocated to TNNP and surrounding forests (P. Besar & Sg. Ketiar Elephant Sanctuary), RBSP & ERNP.



Elephant Electric Fence System (SPEG)

- ❑ Elephant translocation is not a suitable option in areas adjacent to large elephant habitat.
- ❑ Electric fences have been used in the country since the 1940s, built by private landowner or land development scheme.
- ❑ Drive-shooting is common practice
- ❑ 2008 – 2015: GoM allocate RM13.6 mill for 20 electric fence projects with total length of 282 KM for villages adjacent to main elephant habitat.
- ❑ Projects location: Perak, Kelantan, Pahang, Terengganu & Johor.



Eliminate / cull



Joint Operation with local community



Collaboration with RELA



Collaboration with licensed hunter



Culling practice for over surplus population



Catch and eliminate for over populated group



Hunt for dangerous individual

Trapping



Macaque trap



Wild boar trap



Surface trap for Tapir



Single trap



Crocodile trap



Bear trap



Civet trap



Tiger trap

Campaign & awareness



When bitten by a snake

| What Not to Do | What to Do |
|--|--|
| <p>1 Don't use a tourniquet or apply ice</p> | <p>1 Remain calm and move beyond the snake's striking distance.</p> |
| <p>2 Don't cut or massage wound or attempt to suck out venom.</p> | <p>2 Position yourself, if possible, so that the bite wound is at or below the level of your heart.</p> |
| <p>3 Don't drink caffeine or alcohol, which could speed up the absorption rate of the venom.</p> | <p>3 Clean the wound, but don't flush it with water. Cover it with a clean, dry dressing.</p> |
| <p>4 Don't capture the snake. Remember its colour and shape, which will help in the treatment, better yet take a photo of it.</p> | <p>4 Go to the nearest general hospital.</p> |

Who To Call When You See A Snake
 Perhilitan: 1-800 985 151 (9am to 5pm), Fire & Rescue: 999, Marak: 012-688 8051
 Civil Defence: 03-371 0820 (Selangor), 03-2687 1400 (Kuala Lumpur)

BERTINDAK SEBELUM TERLAMBAT

| | |
|---|--|
| <p>KEBUN YANG BERSEKAM SAMUN MEMUDARAKAN HARIMAU BERSEKAM RAGI MENJERAK MANUKA.</p> | <p>KEBUN YANG BERSIH LEBIH SELAMAT KEKANA HARIMAU TIDAK TEMPAK BERSEKAMNYA.</p> |
| <p>HAYMAN TERSEKAM YANG BERKELARAN MUDAM MENADI HABLAN HARIMAU.</p> | <p>KEKAMPUNG TERSEKAM YANG DISEKAM BERIKAN SELAMAT DAPAT MENCAKAI GANGGUAN HARIMAU.</p> |
| <p>LADANG KELAPA LAWIY PEBU DUBUR DENGAN BAKI BERASA TUM RUMY LAWIY MENAKI BAKI HUPANG SETERUNYA MENGUNDANG KEDATANGAN HARIMAU.</p> | <p>LADANG KELAPA LAWIY YANG BERSIH LEBIH SELAMAT BERASA TIDAK TERAK SAMUN UNTUY HARIMAU BERSEKAMNYA.</p> |
| <p>PERBUK HARAU MENGUNAKAN SENJAYA AI DAN BEAT UNTUY MENEBU HARAU LAK. HARILA HARIMAU TERSEKAM DAN BERASAM, IN BUNYUNG MENEGANG KESEKAMNYA HARIMAU.</p> | <p>LAKSABAN MAKLUMAT PERBURUAN HARAU UNTUY MENELAK TERSEKAM SEWA DIRI ANDA DAN KELUAGA MENADI MANUK HARIMAU.</p> |



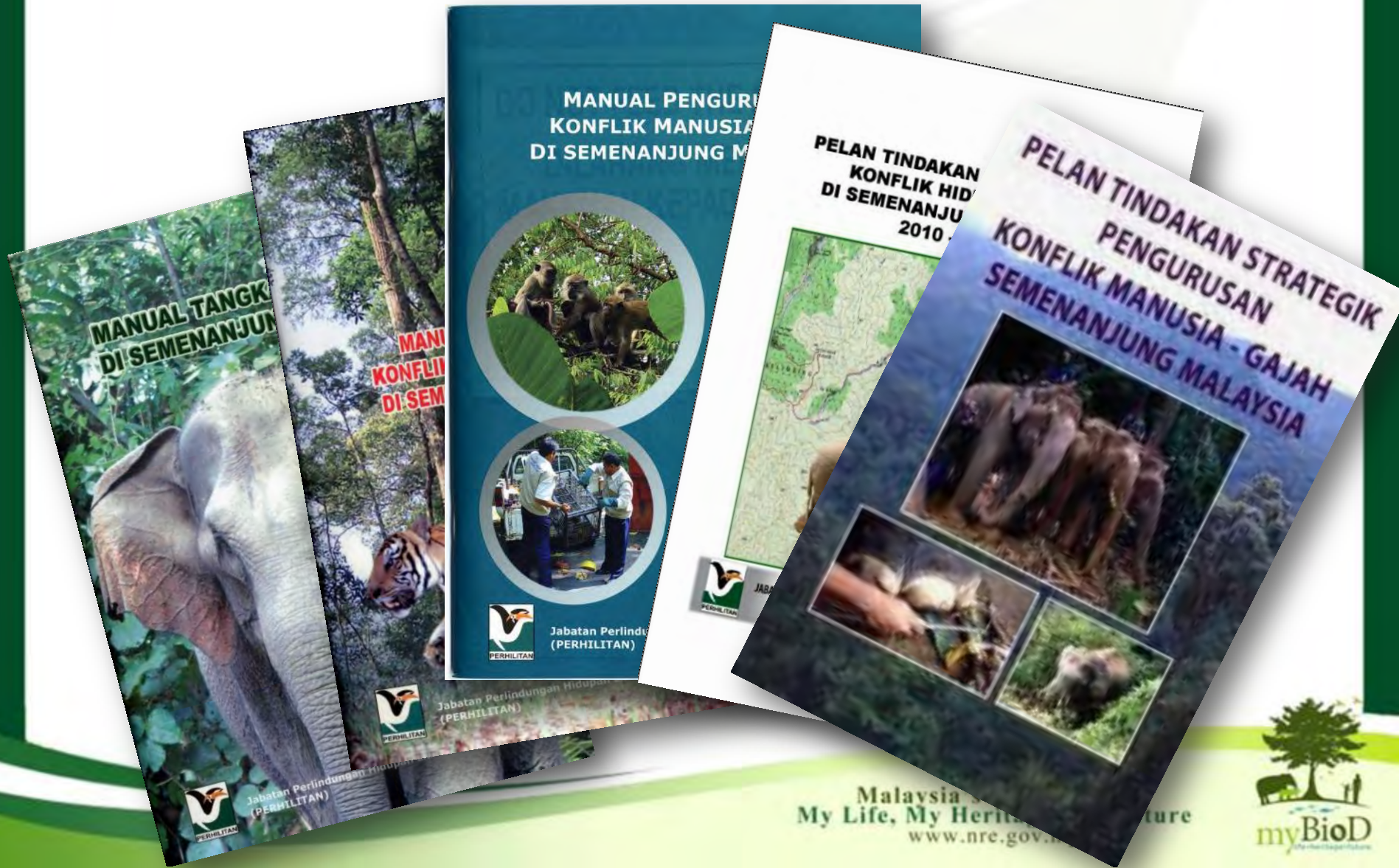
MENCEGAH KEHADIRAN & SERANGAN ULAR

6 TIPS untuk mencegah serangan ular

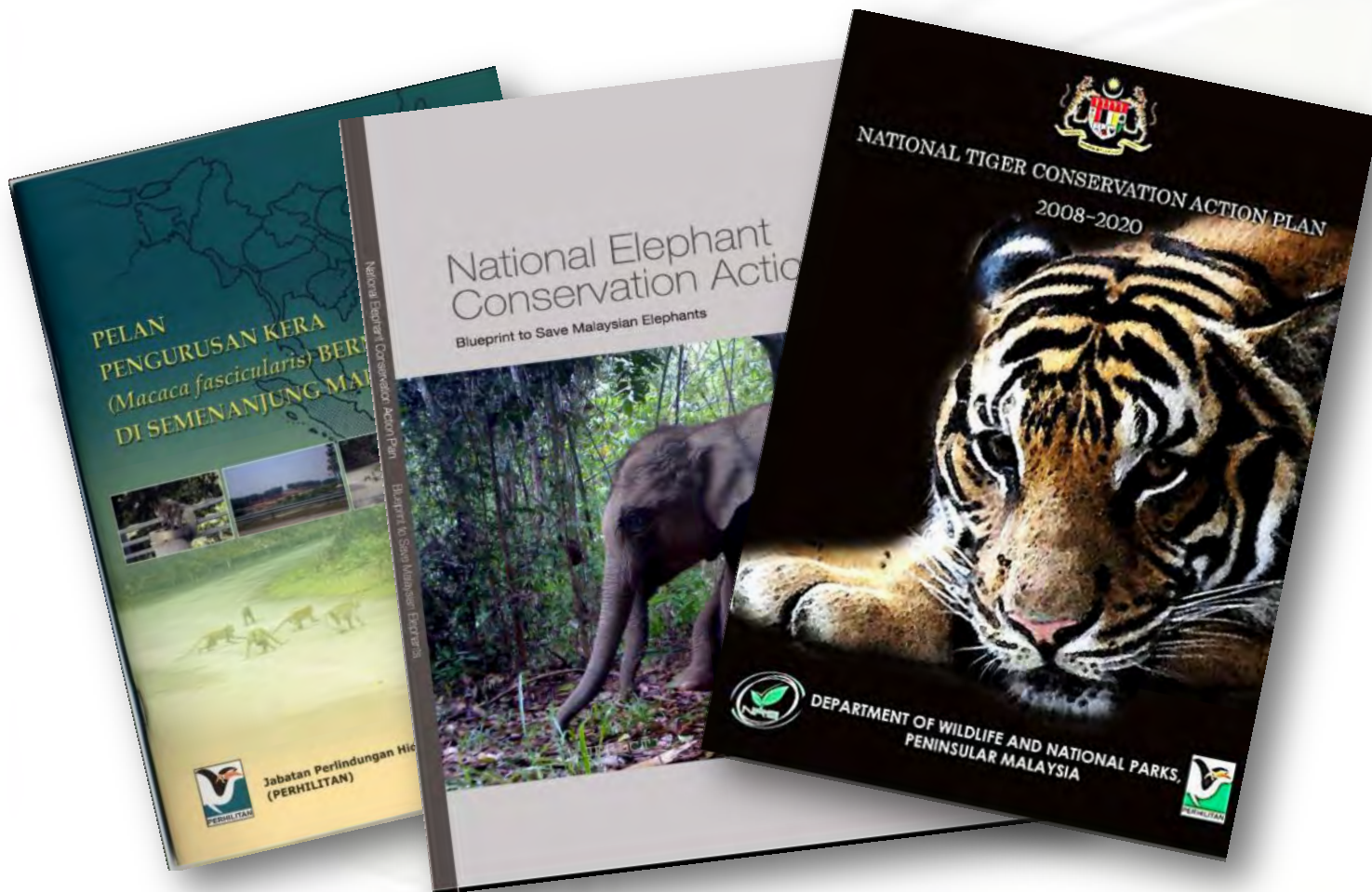
SILA HUBUNGI
 03 90866800 (di Perak)
 1800881151 (seluruh negara)
www.ditlilife.gov.my

| | |
|--|--|
| <p>1 Periksa bilik tidur, bilik air, bilik mandi dan petua, terutamanya dalam kawasan bilik dan tidak bercahaya.</p> | <p>2 Periksa tempat yang panjang di sekitar kediaman, terutamanya di kawasan persembungan, dan jangan mengabaikan bilik untuk mengesan kehadiran ular.</p> |
| <p>3 Senjata atau barang-barang tajam, termasuk pisau dan gunting, jangan diletakkan di kawasan yang ular mungkin ada makanan. Jika anda mempunyai pisau/gunting, pastikan kehadiran pemangannya selalu ubah.</p> | <p>4 Periksa tidak ada makanan di dalam kediaman yang ular mungkin ada makanan. Jika anda mempunyai makanan, pastikan kehadiran pemangannya selalu ubah.</p> |
| <p>5 Periksa dan pastikan, jika ada, keadaan bilik bilik atau kawasan sekitar yang bercahaya.</p> | <p>6 Periksa tempat-tempat, terutamanya kawasan yang bercahaya, terutamanya kawasan persembungan, dan jangan mengabaikan bilik untuk mengesan kehadiran ular.</p> |

Manual and action plan for HWC



LONG-TERM STRATEGIES



Species Management Plans

LONG-TERM STRATEGIES

Habitat Protection and Corridor Connectivity

- ❑ 37 location identified in CFS Master Plan for Ecological Linkages
- ❑ 2009: 3 viaducts built in Primary Linkage 7 (PL7). Connected between Tembat FR and Terengganu NP. Cost = MYR 24.9 million.
- ❑ 2014: 3 viaducts constructed at PL1. Connected Sungai Yu FR and Pahang NP. Cost = MYR 82.3 million.
- ❑ 2015: a viaduct constructed at PL2. Connected Temengor FR and Royal Belum State Park. Cost = MYR 25.1 million.



Sg. Yu viaduct



Sg. Deka viaduct



Gerik viaduct



LONG-TERM STRATEGIES

- Safe wildlife crossing (SWC) initiative

- 236 wildlife crossing signages erected at 133 hotspots
- 37 transverse bar & 24 unit solar amber light at 4 hotspots in Johor
- Propose additional of 426 signages at 213 new hotspots and install *transverse bar & solar amber light* at 14 locations



Amber light



Transverse bar

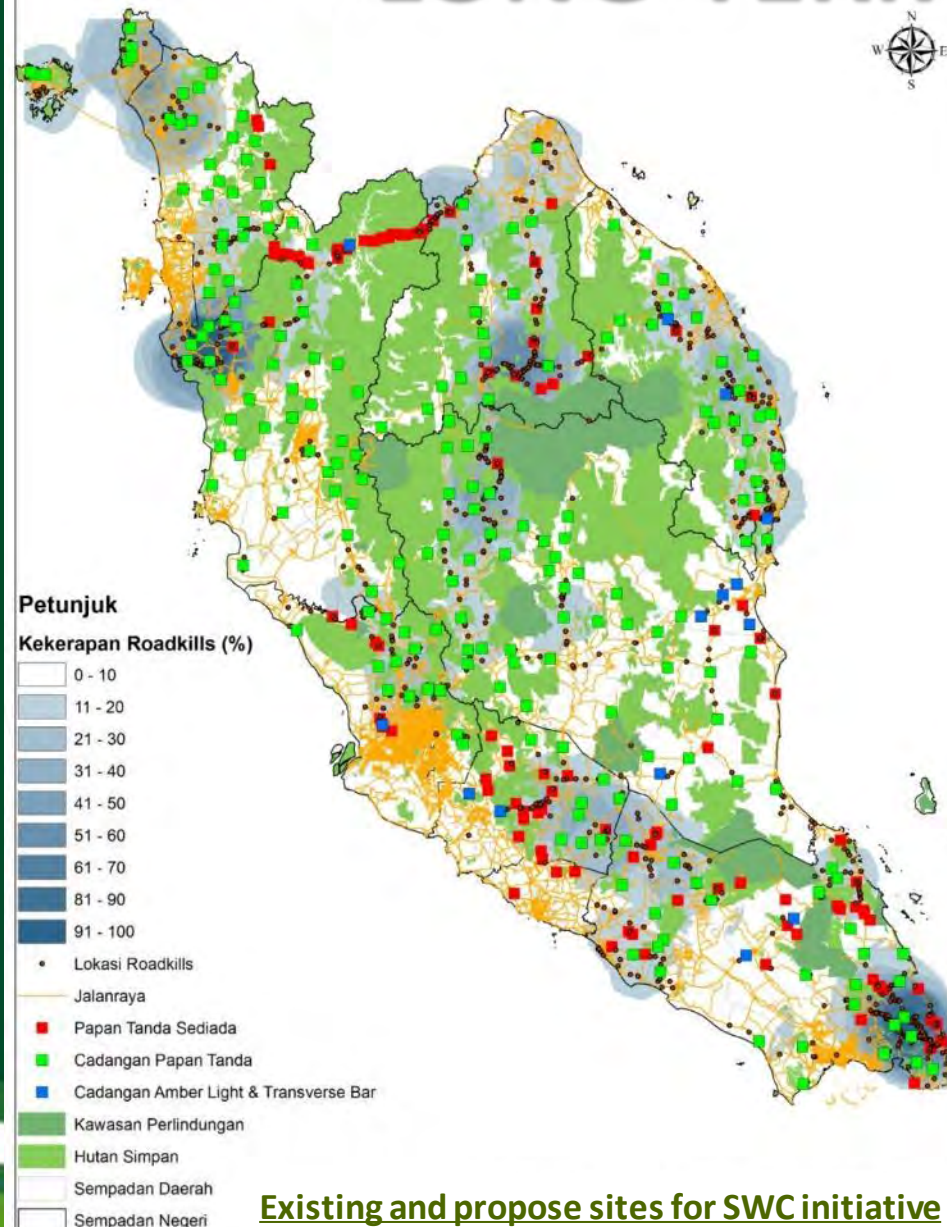
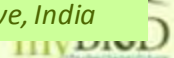


Signage



e.g.: Billboard for wildlife crossing – near Corbett Tiger Reserve, India

Malaysia's Bi
My Life, My Herit
www.nre.gov.my



RECOMMENDATIONS

1. Establish Wildlife Conservation Unit
2. Develop & execute Wildlife Conflict Mitigation Plan
3. Create buffer zone for wildlife
4. Awareness program for public and plantation workers
5. Preventing encroachment outside plantation area
6. Zero hunting in plantation area
7. Establish Wildlife Conservation Fund



Creating of wildlife buffer zone at Ulu Temiang FR, Kuala Krai, Kelantan

ACKNOWLEDGEMENT

Highest appreciation to



Thank you

