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Country Report: Road Safety and Road Signs in Thailand

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# Transport Infrastructure Development

<table>
<thead>
<tr>
<th>Transportation Type</th>
<th>Description</th>
<th>Distance per 2 lane Motor &amp; Express way</th>
<th>Rural Rd. (DRR) Rural Rd. (Local Administration)</th>
<th>Coastal River Canal</th>
<th>Single track Double track</th>
<th>Airport Private airport Military airport</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Highways (28%)</td>
<td></td>
<td>61,747 Km 313 Km</td>
<td>42,500 Km 107,500 Km</td>
<td></td>
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<tr>
<td>Rural Roads (67.8%)</td>
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<tr>
<td>Waterway (2.4%)</td>
<td>Coastal River Canal</td>
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<tr>
<td>Railway (1.8%)</td>
<td>Single track Double track</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Air</td>
<td></td>
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</tr>
</tbody>
</table>

Transport Infrastructure Development

- **National Highways (28%)**
  - Distance per 2 lane Motor & Express way: 61,747 Km, 313 Km
- **Rural Roads (67.8%)**
  - Rural Rd. (DRR): 42,500 Km
  - Local Administration: 107,500 Km
- **Waterway (2.4%)**
  - Coastal River Canal: 2,614 Km, 1,750 Km, 883 Km
- **Railway (1.8%)**
  - Single track: 3,755 Km
  - Double track: 280 Km
- **Air**
  - Airport: 34
  - Private airport: 3
  - Military airport: 1
Trend of road Accident in Thailand (2001-2011)

Death toll 10,172 in year 2011 = 15.87 per 100,000 population

Death Rate per Oil consumption in 1,000 mil.- Lit 2010 = 0.28

Source: *,** Royal Thai Police

*** Surveillance unit and reflects the situation of road safety, ThaiRoads
Situation of Road Accidents

- Death toll in 2011: 15.87 per 100,000 populations
- Fatality Index: 0.18 in 2010
- Adolescents (15-24 years) at risk of death and serious injury
- Severity Index: 13.27 in 2011
- Motorcycle accident remains the most
- 3 Main causes of accident: Speed violation, Human error, and Illegal overtaking
Lack of Safety awareness

Illegal driving

Vehicle misuse
High Concerns for Risk Reduction & Prevention of Traffic Accident during Songkran & New Year Festivals
### Road Accident during Songkran and New Year 2007-2013

<table>
<thead>
<tr>
<th>Year</th>
<th>No. Accident</th>
<th>No. Fatality</th>
<th>No. Injury</th>
<th>Drunk Driving</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>New Year</td>
<td>Songkran</td>
<td>New Year</td>
<td>Songkran</td>
</tr>
<tr>
<td>2007</td>
<td>4,456</td>
<td>4274</td>
<td>449</td>
<td>361</td>
</tr>
<tr>
<td>2008</td>
<td>4,475</td>
<td>4243</td>
<td>401</td>
<td>368</td>
</tr>
<tr>
<td>2009</td>
<td>3,161</td>
<td>3977</td>
<td>367</td>
<td>373</td>
</tr>
<tr>
<td>2010</td>
<td>3,534</td>
<td>3516</td>
<td>347</td>
<td>361</td>
</tr>
<tr>
<td>2011</td>
<td>3,479</td>
<td>3,215</td>
<td>358</td>
<td>271</td>
</tr>
<tr>
<td>2012</td>
<td>3,093</td>
<td>3,129</td>
<td>336</td>
<td>320</td>
</tr>
<tr>
<td>2013</td>
<td>3,176</td>
<td>2,828</td>
<td>365</td>
<td>321</td>
</tr>
</tbody>
</table>

Source: Department of Disaster Prevention and Mitigation, Ministry of Interior
On 2nd January 2003 cabinet approval to establish a single and unified central body for road safety management system:

- Deputy PM: Director of RSDC
- DG, Dept. of Disaster Prevention and Mitigation: Secretariat

Ministry of Interior, Transport, Justice, Public Health, Education, Royal Thai Police, other Government Agencies; Private sector; NGOs
# Road Safety Master Plans

<table>
<thead>
<tr>
<th>Master Plan</th>
<th>Year</th>
<th>Goal</th>
<th>Actual</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version 1</td>
<td>2005 – 2008</td>
<td>20.00</td>
<td>18.24</td>
<td></td>
</tr>
<tr>
<td>Version 3</td>
<td>2013 – 2016</td>
<td>12.18</td>
<td>n/a</td>
<td>Revised</td>
</tr>
<tr>
<td>Version 4</td>
<td>2017 – 2020</td>
<td>10.00</td>
<td>n/a</td>
<td></td>
</tr>
</tbody>
</table>

Rate per 100,000 habitants

Version 3 is being revised in line with the Moscow Declaration on the Decade of Action for Road Safety 2011-2020 to reduce the fatality rate below 10 persons per 100,000 habitants by 2020.

29 June 2010 Thai cabinet announced and launched “the Decade of Action for Road Safety 2011 - 2020” and National Campaigns
Road Safety Directing Center Implementation

5 Pillars Under the Decade of Action for Road Safety

- Disaster Management
- Road Safety
- Vehicle Safety
- Passenger and Pedestrian Safety
- Emergency Response

**Shot Term Plan**
- not drive drunk-focus only on public transport
- Development of an Integration of Geographical Information
- Security plan for international airport
- Radio-frequency identification (RFID) for public bus’s driver

**Intermediate Term Plan**
- not drive drunk-focus on private bus companies
- Black Spot Treatment Training Program
- Improvement of railway system
- Improvement of railway crossing

**Long Term Plan**
- educate students in primary and high school
- GPS installed in Public Bus
- get supportive from Provincial offices of rural transport

Source: OTP, Aug, 2011
Efforts in line with Decade of Action for Road Safety

- Improvement of traffic accident record data
  - No. of Deaths, Injuries

- Development of Joint Key Performance Indicators (KPIs) among MOI, MOT, RTP
  - Deaths per 100,000 Population
  - To halve the deaths within Decade of Action for Road Safety (< 10)

- Promotion of road safety education and implementation e.g. Accident Investigation

- Integrated multidisciplinary works
Implementation of Road Signs & Road Signals: A Road Safety Measure

In line with Vienna Convention on Road Signs and Road Signals 1968

Regulatory

Warning

Informative

Etc…
Department of Highways’ Road Sign Manual

- Traffic Control Sign Manual Section 1 (1988)
- Traffic Control Sign Manual Section 2 – Markings (1990)
ASEAN/Asian Highway Routes in Thailand

- **AH1**: Aranyaprathet-Hin Kong-Bang pa –in (-Bangkok)-Mae Sot: 715 Km
- **AH2**: Sa Dao-Hat Yai-Bangkok-Chiang Rai-Tachilek: 1,913 Km
- **AH3**: Chiang Kong -Chaing Rai: 121 Km
- **AH12**: Nong Khai-Udon Thani-Nakhon Ratchasima-Hin Kong: 571 Km
- **AH13**: Nakhon Sawan-Phitsanulok-Huai Kon: 550 Km
- **AH15**: Nakhon Phanom-Udon Thani: 248 Km
- **AH16**: Tak-Khon Kaen-Mukhdahan: 703 Km
- **AH18**: Hat Yai-Sungai Kolok: 311Km
- **AH19**: Bangkok-Laem Chabang-Kabin Buri-Nakhon Ratchasima: 364Km
- **Total**: 5,499 km. for Asian Highway
- +++ **AH 112, AH 121, and AH 123** to be ASEAN Highway, Total 6,669 km.
- **AH 112**: Klong Loi – Bang Sapan: 28 Km
- **AH 121**: Mukdahan-Yasothon-Burirum-Chong Tako: 507 Km
- **AH 123**: B. Pu Num Ron-Bkk-Trat-B. Hat Lek: 634 Km
Replaced & Installed Asian/ASEAN Highway Signs in 2010

Existing

A 1

New

AH 1
Road Signs & Road Signals in Thailand
Tourist Information Sign (Day)
Tourist Information Sign (Night)

Welcome to the Northeast

Khan Yu National Park

Phanom Ranong Historical Park

Phu Erawan National Park
Khob Khun kha
Thank You