LIFE ON THE FRONTLINE 2018
A global survey of the working conditions of rangers
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Sustainable Development Goal 15 aims to “protect, restore, and promote sustainable use of terrestrial ecosystems, [and] sustainably manage forests.” When adopting this Goal and its targets, the international community recognized that it must take action to protect the ecosystems that are home to more than 80% of the terrestrial species of animals. During the High-level Dialogue of the XIV World Forestry Congress in 2015, the participants declared that “wildlife management can provide benefits for food security, livelihoods, natural heritage, and biodiversity and ecosystem conservation.” They also called for combating the illegal trade in wildlife.

But none of these lofty goals can be realized without wildlife rangers. Public wildlife rangers are at the forefront of the struggle to preserve uncountable species that are victimized by multiple consequences of human activity. As with all public servants, it is the duty of governments, and indeed of society, to ensure that they have the proper tools and working conditions to carry out their work. Decent work, the heart of the ILO’s mission, requires the protection of workers’ rights, adequate income and social protection. As the ILO Director-General stated in 1999, “it marks the high road to economic and social development.” As a result, it is the central feature of SDG 8.

For that purpose, the international community, gathered in the ILO, has adopted a number of International Labour Standards that cover many areas of work that wildlife rangers care about and are discussed in this report, among them: preparing for and confronting climate change and conflicts, housing conditions, welfare facilities like water and sanitation, working hours, protection of wages, freedom to join workers’ organizations, the right to collective bargaining, protection of their civil and political rights, and termination of employment.

In 1999, the ILO adopted a Code of Practice on Safety and Health in Forestry Work, which continues to protect the health and safety of workers in protected forests. In light of the recent changes in climate and their impact on forests and wildlife, the ILO will host a sectoral meeting on promoting decent work and safety in forestry in 2019.

To mark the centenary of the ILO in 2019, the International Labour Conference has decided to adopt a Convention and a Recommendation on violence and harassment in the workplace, which is a main concern of this report. During the first discussions in 2018, the workers’ representatives pointed out that violence at work may stem from public servants’ interaction with third parties, especially in dealing with sensitive matters such as issuing sanctions and fines, and conducting inspections and prosecutions. The proposed Convention will require governments to adopt laws and regulations to prohibit violence and harassment anywhere workers, including rangers, carry out their duties or any activity related to their work.

This groundbreaking report allows us to survey the issues that affect wildlife rangers the most and establish priorities for future action. The reader will have the privilege of witnessing these problems from the point of view of the rangers themselves, which adds great value as a starting point for such action. The choice of regions is particularly appropriate, since they are home to a wide variety of endangered species which require attention from the governments. This report contributes to the growing realization that those who protect these species are a crucial element in this effort, and that their ability to play their role requires decent working conditions.

We commend the WWF for this initiative and invite readers and policy-makers to create awareness of the challenges facing these dedicated public servants so member states and workers’ organizations can take positive actions on their behalf.

Carlos R. Carrión-Crespo
Sectoral Specialist for Public Service and Utilities, International Labour Organization

We are in the midst of both a global extinction crisis and global poaching crisis that threatens decades of conservation successes as well as the survival of many species. Poaching is one of the greatest current threats to the conservation of species and their habitats. Three of the world’s most loved species – tigers, elephants and rhinos – are under threat from extinction. Increasingly involving large-scale, transnational organised crime, the current unprecedented spike in illegal wildlife trade poses a growing threat not only to wildlife but to the local communities that depend on these resources.

Rangers are the front line of conservation. They are responsible for protecting these species and their habitats. Every day, park rangers risk their lives to protect wildlife andwild places from poaching and other threats. Sadly, it’s estimated over 1,000 park rangers have been killed in the line of duty over the past 10 years – a large percentage of these are due to commercial poachers and armed militia groups. Park rangers are generally under-equipped, underpaid, and often under-appreciated. These dedicated men and women need support, appreciation and respect from the whole community – that governments, conservation organizations and the general public.

As the world grapples with the poaching and illegal wildlife trade crisis, rangers on the frontline of protecting our wildlife and natural resources are exposed regularly to dangerous and life-threatening situations. I’ve witnessed this personally while working in the parks and protected areas of Africa and Asia.

I remember rangers packing World War II rifles and reporting encounters with poachers who were armed to the teeth with the latest automatic assault weapons. These poachers, backed by well-resourced, sophisticated wildlife trafficking syndicates have taken a massive toll in terms of injuries and in increasing frequency, the deaths of rangers. The official death toll from last year alone rose to 107 from 101 the previous year according to the International Ranger Federation and The Thin Green Line Foundation.

‘Life on the frontline’ reports on the largest and most comprehensive ranger welfare survey ever conducted in Africa and Asia. The report reveals that many rangers are struggling without basic welfare needs such as decent housing, medical care and adequate health insurance.

There are glaring gaps in access to basic training for new rangers and lack of regular training and upgrading of skills, inadequate communication equipment, lack of transport, low wages and ultimately, inability to respond to the ever-evolving tactics deployed by poachers.

The picture revealed by the data and ranger testimonies in this report is not surprising to me, but as disheartening as the results may be, they are – and should be – a call to action for the surveyed countries and others facing similar challenges to take action and address ranger welfare.

There are simple, inexpensive changes that governments can implement immediately. For example, creating work schedules that allow adequate time for travel and home visits for rangers who work far from their families. Other changes – medical coverage, health insurance and access to adequate living facilities, not to mention tools to enhance safety and effectiveness of patrols – require financial investment but we must rally the international community to provide for our heroes who live on the frontline.

My hope is that this report sparks more interaction between countries of Africa, Asia and beyond so that administrative and management challenges can be elevated and resolved globally.

And my wish is that these survey findings influence far greater investment by governments that lead to significant improvements for rangers’ living and working conditions. These are the women and men who protect our natural heritage and deserve our attention, investment and deepest respect.

Dr Margaret Kinnaird
Practice Leader, Wildlife, WWF International

I am hopeful that readers will remember, and act upon, the call from conservationist Jane Goodall to the attendees of the World Parks Congress in Sydney, Australia to consider how we can better support both rangers and their families. The world community has begun to realize that while protected areas are the cornerstones of biodiversity conservation they also offer much more to society, contributing to food and water security, adaptation to climate change, and human livelihoods. These rangers, and the vital roles that they perform, are not simply protecting wildlife and wild spaces, but also contributing to human welfare and well-being.

Investing in the men and women who take on these important duties and recognizing, enhancing and rewarding their professional skills is one of the most effective ways we can contribute to the protection of nature, and a more sustainable and safer world.

Dr Kathy MacKinnon
Chair, IUCN World Commission on Protected Areas (WCPA)

In my view, the work of the International Ranger Federation and the Thin Green Line Foundation is critical in providing an evidence base to inform policy makers to create awareness of the challenges facing these dedicated rangers.

As the ILO has done with its code of practice for workers in forestry work, the ILO can and must take a leadership role in supporting the IWF to improve the wellbeing of rangers around the world. The conclusions of this report call for a range of action and, equally important, they call for a mindset change to ensure that the welfare of rangers is placed as a priority.

Rangers are on the frontline of conservation efforts, helping to protect the world’s most important natural places in national parks, reserves, conservancies and other protected areas. Their dedication and hard work ensure that natural habitats and wildlife are protected and maintained, conserving nature for present and future generations. Many rangers work in difficult, challenging and sometimes dangerous conditions, yet this vital work force is often poorly recognized and resources.

This publication, the first of its kind, emphasizes the urgency for the global community to act on Recommendation 32 from the 2016 World Conservation Congress in Hawai’i, regarding ‘Establishment, Recognition and Regulation of the Career of Park Ranger’. It emphasizes the need for all states to give immediate priority to the recruitment, training, equipment and well-being of park rangers everywhere. This requires that governments, and conservation agencies, take a fresh look at career advancement for rangers and create attractive and exciting career profiles for staff of protected and conserved areas. This requires support for capacity building to enhance their skills for protection and management but also provision of adequate resources and equipment, including – wherever possible – access to new technologies. More emphasis on professionalism of ranger service would help to address many of the shortcomings identified in this study, and even help to save lives.

As Dr Margaret Kinnaird points out, this report calls for international action to improve the welfare of rangers, and she highlights the importance of making their lives better so that they can continue to protect wildlife and wild places. As a ranger myself, I know that this is not just an opinion, but an urgent need. I��

Forewords
Dedicated to Rangers Who Have Lost Their Lives in the Line of Duty

Recorded ranger deaths (July 2017 - July 2018): 871

Recorded ranger deaths (mid-2009 - mid-2018): 107

Data Source:
Given their central and indispensable role in preserving global biodiversity, one might wonder why there is not already a broad library of information on rangers – a library addressing the many elements and perspectives from what is a dynamic and multifaceted profession. While there is a growing body of literature on ranger activities (e.g. patrol), little is known about the individuals themselves. This publication is an attempt to fill this void by presenting the results of a large-scale assessment of ranger perceptions on their profession. With this significant amount of actionable data, it is hoped that this report can shine a far brighter light on the conditions and realities of a profession that has remained very much in the shadows to this point.

Based on the results of 4,686 surveys completed by patrol rangers in 17 countries and with each survey containing 197 unique responses –, this publication offers much to consider. It is also expansive in thematic scope, tackling matters ranging from traditional employment indicators and benefits, to training and equipment and then further yet to health, stress, community and interpersonal relationships. Such information should open the door to contributions from organizations that have not traditionally considered the profession, such as those with mandates in health and workplace rights. The report provides valuable insights into the day-to-day life and concerns of patrol rangers, and identifies priority actions which those positioned to support rangers are encouraged to take note of.

The single most obvious thread that runs through the survey completed by patrol rangers at nearly 300 sites in 17 countries is that rangers are facing excessive safety and health risks that could be significantly reduced with the appropriate interventions.

The first such element is training, with over one third of rangers (36 per cent) indicating that the training they first received was inadequate to prepare them for the realities of their job. These findings clearly call for an urgent review and modification of ranger curricula, many of which are almost surely highly outdated and inadequate for the challenges faced by today’s rangers.

Health and safety shortcomings seemingly overlap, with the revelation that only 19 per cent of respondents had received any first aid training during the 12-month window prior to responding to the survey. This is a considerable oversight when one considers that more than one in 15 rangers surveyed had broken a bone on the job during that same timeframe, and roughly one in eight sustained another type of serious injury.

Most of the rangers (57 per cent) also believe that medical treatment will not be adequate when needed. This is indicative of the fact that more must be done to hasten the delivery of rangers to qualified medical professionals when the need arises – something that is worth further exploration between relevant government authorities.

Infectious diseases are also revealed by this study to be a serious threat to ranger well-being, with 25 per cent contracting malaria within the prior 12 months, and 22 per cent contracting another disease or infection that required treatment. The fact that a majority of rangers indicated that their shelter is inadequate may partially explain this. Low-cost improvements such as ensuring the availability of mosquito nets and clean drinking water at outposts would almost certainly reduce infections. Only 33 per cent and 51 per cent of those surveyed ‘often’ or ‘always’ had access to those items respectively.

Inadequacy or non-availability of key equipment is another issue that puts rangers at risk. Slightly over half of respondents believed that even their most basic equipment (uniform and boots) is insufficient for the job they do – shortcomings that would be magnified given the substantial patrolling distances required of the profession.

The fact that 36 per cent of rangers surveyed stated that they never have access to communication devices during patrol should shock and surprise. The inability to communicate information in real time makes an already dangerous job far riskier.

Another safety-related matter communicated to us by rangers is the high rate of on-the-job verbal abuse (31 per cent) and threats (32 per cent) received from community members within the prior 12 months. However, this problem was recorded unevenly – between regions, and even between countries within the same region. Improving training (sensitization, human rights considerations, etc.) as it pertains to dealing with local communities and other stakeholders, and opening up a constructive dialogue between wildlife authorities and those communities must be made a matter of priority in areas where the situation is problematic. Such a strategy can do much to protect the safety of both rangers and local peoples.

Many of the problems outlined by rangers also direct us towards possible solutions. However, such solutions will require political will and action, as well as the support of those organizations that have a stake in rangers or conservation more generally. At minimum, the information revealed through the surveys should help those overseeing budgets for this sector to better prioritize spending and make sound decisions regarding the allocation of finite resources.

To accomplish more lasting change however, rangers need to be fully professionalized – which is to say properly valued and supported for the critical role they play. Findings in this study, such as the fact that one-third of surveyed rangers have been paid late at least once during the previous year, reveal that there is considerable progress needed on this point.

Fortunately, this is an opportune time for major changes to how rangers are perceived and supported. One major factor is that governments are increasingly recognizing that rangers protect more than natural heritage and intact wilderness. They also guard billions of dollars of ecosystem services provided by protected areas – services that form the base upon which economic progress and sustainable development must necessarily be built. All this in addition to the fact that rangers are protecting an item of classic concern to governments – the territorial integrity of their countries, which is now more than ever threatened by the intrusion of transnational wildlife crime.

This study gives a strong voice to rangers, and shares with us many of their most pressing challenges and concerns. It now falls on governments and their partners to answer the call.
That rangers face many challenges and a difficult working environment is a commonly-held opinion of those familiar with the sector. However, quantitative studies on rangers’ working conditions have been almost non-existent, with far less data available than is the case for most professions.

To determine whether the intensive effort and investments required to produce this study would be necessary, WWF conducted an initial limited-scope pilot study of rangers in the Africa and Asia regions, later published as Ranger Perceptions: Asia and Ranger Perceptions: Africa. These, along with another small overview study entitled Ranger Insurance Report, suggested that the situation currently faced by rangers is highly problematic. It was clear that a larger, more rigorous study would be required to make the case for change and galvanize action.

The publication of this report is only the start – far more is on the way. This includes a major research report that will be released in the lead-up to the 2019 World Ranger Congress in Nepal. That publication will include:

- National-level survey results from the 17 countries highlighted in this publication.
- Results from the delivery of the survey to an additional 4-10 countries.
- In-depth studies and recommendations on a variety of topics pertinent to rangers, including:
  - A comparative review of the ranger sector to other law enforcement sectors (e.g. police) in select survey countries.
  - An in-depth ranger insurance study from four countries.
  - A comprehensive analysis of the legal rights and obligations of rangers working in seven Asian countries.
  - Further analysis of international law and international labour standards as they pertain to the sector.
  - The results of surveys delivered to hundreds of community members, in or immediately adjacent to protected areas where rangers had previously been surveyed. The perceptions of both groups towards each other will then be compared in order to suggest means to improve ranger-community relations.
  - A case study on post-traumatic stress disorder (PTSD).
Methodology Summary

17 countries surveyed  
294 survey sites  
20 months  
4,686 responses

The survey was delivered to rangers at 294 sites in 17 countries between October 2016 and July 2018. Of the 4,686 surveys that were returned, 4,393 make up the main findings published in this report (15 countries), and 293 were analyzed separately as regional case studies (two countries). In addition to taking the survey, approximately one in five respondents was invited to participate in a short one-on-one interview, with the survey delivery team member taking down their answers in writing. Some of these responses are included as quotes in the regional sections of this report.

The study prioritized the following approaches:

**Collaborative development:** Although the lead survey design team consisted of three individuals, dozens of experts were invited to give inputs into the process, leading to a number of important additions. Prior to data collection, a two-day workshop was held in Phnom Penh, Cambodia (2015), where key stakeholders – including rangers – from a number of Asian countries met to discuss the draft survey and interview instruments to better contextualize the questions, as well as the logistics required to standardize data collection across multiple countries.

**Public-sector patrol rangers as sole survey targets:** Two key criteria were used to determine eligibility for participation in the survey. One was that the rangers should be in the public sector, in the sense that some or all of their salary is paid by government, and their position should be characterized by accountability and duties to a governmental authority. The second prerequisite was that the ranger taking the survey must be involved in patrolling activities on a regular basis. It is also worth noting here that rangers go by multiple designations across Asia and Africa, with many survey respondents not formally referred to by the term ‘ranger’ in their home country.

**Organizational and geographical representativeness, plus consistency in national sample size selection:** In all surveyed countries major efforts were made to obtain an accurate estimate of the total number of employed public sector patrol rangers (these figures can be viewed on pages 11-12). Plans were then built around the objective of delivering surveys to roughly 20 per cent of patrol rangers in each country, to an upper limit of roughly 750 responses. This was to ensure that the data collection a) was manageable for the survey teams, b) did not interfere with the operations of the agencies involved, and c) provided sufficient responses for future statistical analyses.

To the extent possible, survey sites were then selected in a manner reflective of overall distribution of rangers, both geographic and organizational. Examples of the latter would include distribution of rangers between ministries (e.g. environmental vs forestry) or between different levels of government (e.g. federal vs provincial). While random sampling is often viewed as the best approach for survey research, the study adopted a convenience sampling strategy as random sampling would have been limited by the ability to approach rangers located in remote outposts. Furthermore, the identification of randomly-selected rangers may have compromised the anonymity of study participants.

**Questions spanning a 12-month timeframe:**

Many of the survey questions prompted rangers on events that happened during the preceding 12 months at their workplace. Because the survey covered an entire year, this approach minimized the risk of skewing responses by taking into account the influence of seasonal variations (e.g. malaria infection rate, contact with community members, etc.).

**High-quality translations:** The survey was translated into national or local languages when required, and the quality of each survey was verified by field staff working closely with rangers in each case. In instances in which the survey respondent was illiterate, a member of the survey delivery team would read the questions aloud to that person, and assist them in recording their responses.

**Strong privacy protections:** Prior to the start of both surveys and interviews, informed consent procedures were followed. Rangers who were offered the opportunity to partake in the survey were informed that their participation was entirely voluntary. As an added layer of anonymity protection, verbal consent was provided to ensure that respondents did not have to record or sign their names. Survey and interview takers were also provided with an alphanumerical code that corresponded to their submitted response sheets. They were informed that they could at any time use this number to request that their response be destroyed and removed from any analysis.

To encourage full honesty, respondents were informed that neither individual responses nor site-specific results would be shared directly with their departments or any government officials, in order to protect the safety (particularly job security) of both survey respondents and their managers at individual sites. Responses were always kept in the possession of survey delivery teams, which in all cases were non-governmental staff.

**Additional factors impacting surveys:** Although it is hoped that all results are an accurate reflection of ranger employment conditions, certain factors should be acknowledged when one conducts broad sociological surveys of this kind. Some examples might include:

1. Cultural variation when it comes to expressing opinions on matters such as happiness, dissatisfaction, or other topics that can be highly sensitive in some regions (e.g. criticism of superiors, corruption, sexual harassment, etc.).
2. Sample sites selected are unlikely to be perfectly representative of a country as a whole. Financial limitations precluded the option of sampling at every single site where rangers work in these countries.
3. Some words or concepts used in the original English survey do not have precise counterparts in the language of the translated documents, which may influence certain responses in a limited number of cases.

All of the above issues were mitigated to the extent possible by seeking advice from individuals familiar with the local organizational, cultural and linguistic context of the survey locations.

To reduce respondent fatigue, multiple breaks were incorporated into the survey: In instances where several rangers sat to take the survey at the same time, they were instructed not to discuss its content until after they had concluded and left the survey location.
# Country Survey Sites

<table>
<thead>
<tr>
<th>Country</th>
<th>Survey Sites</th>
<th>Number of surveys</th>
<th>Estimated number of patrol rangers in country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cameroon</td>
<td>109</td>
<td>900</td>
<td></td>
</tr>
<tr>
<td>Uganda</td>
<td>610</td>
<td>2,000</td>
<td></td>
</tr>
<tr>
<td>Central African Republic</td>
<td>37</td>
<td>247</td>
<td></td>
</tr>
<tr>
<td>Pakistan</td>
<td>474</td>
<td>1,500</td>
<td></td>
</tr>
<tr>
<td>India</td>
<td>767</td>
<td>60,000</td>
<td></td>
</tr>
<tr>
<td>Nepal</td>
<td>200</td>
<td>2,262</td>
<td></td>
</tr>
<tr>
<td>Republic of Congo</td>
<td>67</td>
<td>177</td>
<td></td>
</tr>
<tr>
<td>Kenya</td>
<td>516</td>
<td>3,000</td>
<td></td>
</tr>
<tr>
<td>Myanmar</td>
<td>105</td>
<td>412</td>
<td></td>
</tr>
<tr>
<td>Bhutan</td>
<td>54</td>
<td>1,500</td>
<td></td>
</tr>
<tr>
<td>Bangladesh</td>
<td>143</td>
<td>820</td>
<td></td>
</tr>
<tr>
<td>Sri Lanka</td>
<td>145</td>
<td>614</td>
<td></td>
</tr>
<tr>
<td>Indonesia</td>
<td>742</td>
<td>5,604</td>
<td></td>
</tr>
<tr>
<td>Cambodia</td>
<td>201</td>
<td>1,300</td>
<td></td>
</tr>
<tr>
<td>Malaysia</td>
<td>223</td>
<td>1,408</td>
<td></td>
</tr>
</tbody>
</table>

WWF does not endorse the borders of any map shown in this publication, nor does the organization adopt any political position related to territorial claims.
**Global Overview**

**Average**

- **Age**: 40.86 years old
- **Time in current organization**: 12.76 years
- **Work as a ranger**: 12.32 years
- **Work in current conservation area**: 9.37 years

**Gender breakdown**

<table>
<thead>
<tr>
<th>Gender</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌟</td>
<td>255</td>
<td>5.9</td>
</tr>
<tr>
<td>🧙‍♂️</td>
<td>4,057</td>
<td>94.1</td>
</tr>
</tbody>
</table>

*81 respondents did not answer the gender question

**What is a ranger?**

Ranger is a collective term used to describe wildlife wardens, forest guards, foresters, scouts, watchers and other frontline staff. They are involved in practical protection and preservation of wild areas, historical and cultural sites. Moreover, they provide recreational opportunities and interpretation of sites, while providing links between local communities and protected areas.

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Global Overview

Employment

Benefits from the work that I do

- Overtime compensation
  - Yes: 83.9%
  - No: 12.2%
  - Unsure: 4.3%

- Extra pay for bad/dangerous work conditions
  - Yes: 4.3%
  - No: 47.2%
  - Unsure: 47.2%

- Paid sick leave
  - Yes: 61.4%
  - No: 13.7%
  - Unsure: 24.9%

- Paid annual leave
  - Yes: 5.6%
  - No: 47.2%
  - Unsure: 47.2%

I am paid this much in my local currency

USD 254.15 monthly

During the last 12 months

- I was paid late once
  - Yes: 8.9%
  - No: 91.1%

- I was paid late ≥ 3 times
  - Yes: 17.3%
  - No: 82.7%

- My payment was withheld for ≥ 2 months
  - Yes: 27.1%
  - No: 72.9%

- My salary was cancelled
  - Yes: 17.9%
  - No: 82.1%

I am satisfied with my chances for promotion and advancement

- Strongly agree
  - 5.3%
- Agree
  - 17.7%
- Disagree
  - 32.1%
- Strongly disagree
  - 45.9%

I am paid a fair wage

- Strongly agree
  - 12.2%
- Agree
  - 37.3%
- Disagree
  - 24.5%
- Strongly disagree
  - 26.0%

Average hours I work weekly

- Total: 76.11 hours
- 6 PM-6 AM: 33.42 hours

I have access to

- A union, work council or similar committee that represents employees
  - Yes: 78.9%
  - No: 21.1%

- A union, work council or similar committee that can ‘collectively bargain’ on my behalf
  - Yes: 17.9%
  - No: 82.1%

Type of employment contract

- Permanent
  - 78.9%
- Limited duration
  - 2.9%
- No contract
  - 18.2%

I have other paid jobs besides being a ranger

- 4.8%

Benefits from the work that I do

- 78+18+4+A

- 78.9%
- 3.8%
- 17.9%

Paid sick leave

- Yes: 13.2%
- No: 86.8%

Paid annual leave

- Yes: 12.5%
- No: 87.5%

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ILO Convention Category

<table>
<thead>
<tr>
<th>Category</th>
<th>Conventions relevant to rangers</th>
<th>Ratification rate (%) of listed conventions by 14 ranger survey countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Governance</td>
<td>No. 81 - Labour Inspection Convention (1947); No. 122 - Employment Policy Convention (1964); No. 129 - Labour Inspection (Agriculture) Convention (1969); No. 144 - Tripartite Consultation (International Labour Standards) Convention (1976)</td>
<td>54%</td>
</tr>
<tr>
<td>Fundamental</td>
<td>No. 29 - Forced Labour Convention (1930); No. 87 - Freedom of Association and Protection of the Right to Organise Convention (1948); No. 98 - Right to Organise and Collective Bargaining Convention (1949); No. 100 - Equal Remuneration Convention (1951); No. 105 - Abolition of Forced Labour Convention (1957); No. 111 - Discrimination (Employment and Occupation) Convention (1958); No. 138 - Minimum Age Convention (1973); No. 182 - Worst Forms of Child Labour Convention (1999)</td>
<td>89%</td>
</tr>
<tr>
<td>Technical</td>
<td>No. 47 - Forty-Hour Week Convention (1935); No. 95 - Protection of Wages Convention (1949); No. 102 - Social Security (Minimum Standards) Convention (1952); No. 156 - Workers with Family Responsibilities Convention (1981); No. 171 - Night Work Convention (1990); No. 155 - Occupational Safety and Health Convention (1981); No. 151 - Labour Relations (Public Service) Convention (1978); No. 159 – Indigenous and Tribal Peoples Convention (1989)</td>
<td>8%</td>
</tr>
</tbody>
</table>

Even though the 14 survey countries included in this calculation comprise 7.5 per cent of ILO membership, they account for a mere 2.4 per cent of total ratifications of these important technical conventions – a notable and concerning statistic.

*Bhutan is excluded from the calculations given that it is not an ILO member state.

Source: International Labour Organization / NORMLEX
In one of the countries that was surveyed, all site managers were asked if they received any non-governmental organization (NGO) support, be it in the form of equipment or training. Survey responses revealed that NGO training support did not correspond with a higher frequency of refresher trainings overall, with rates highly similar to those of non-supported sites. Neither did NGO equipment support lead to more positive (or negative) impressions of various equipment types at those sites that received it.

Many factors could explain these results. For instance, NGOs might deliberately target sites with greater needs. It is also possible that limited sample size combined with random variation explain the findings. However, it does invite a more comprehensive multi-country analysis of the impact of NGO support on rangers’ safety and satisfaction.

Interestingly, the only high-magnitude divergence between results from NGO and non-NGO supported sites in the study was that rangers had more frequent access to clean drinking water in sites that did not receive any support. Such findings might lead NGOs to consider whether the most basic necessities of the profession are adequately addressed, rather than limiting involvement to more ‘technical’ or ‘sophisticated’ types of support. It is hoped that this report – and especially a pending 2019 report that will include national-level findings – will allow NGOs to better design their engagement through reference to a more complete accounting of ranger needs.
Global Overview

Health and Insurance

Diseases and injuries that I experienced over the last 12 months

- Malaria: 74.8% Yes, 25.2% No
- Dengue: 95.0% Yes, 5.0% No
- Other serious disease or infection: 76.0% Yes, 24.0% No
- Broken bone: 93.7% Yes, 6.3% No
- Other serious injury: 86.7% Yes, 13.3% No
- Existing health problem made worse by work: 82.6% Yes, 17.4% No

At outpost/station, I have access to

- Toilet: 16.4% Always, 9.1% Often, 25.2% Rarely, 59.3% Never
- Water: 10.6% Always, 9.1% Often, 26.9% Rarely, 53.4% Never
- Medical treatment: 31.4% Always, 62.1% Often, 6.4% Rarely, 0% Never
- Running water: 18.2% Always, 31.4% Often, 26.9% Rarely, 23.5% Never
- Mosquito net: 62.1% Always, 23.3% Often, 14.9% Rarely, 0% Never
- Clean drinking water: 37.0% Always, 47.8% Often, 15.2% Rarely, 0% Never

I think that being a ranger is a dangerous job due to chance of

- Strongly agree: 40.8%
- Agree: 45.3%
- Sometimes: 13.2%
- Disagree: 16.8%
- Strongly disagree: 5.1%

On patrol, I have access to

- Toilet and water: 62.1% Always, 23.3% Often, 14.9% Rarely, 0% Never
- Medical treatment: 31.4% Always, 62.1% Often, 6.4% Rarely, 0% Never
- Running water: 18.2% Always, 31.4% Often, 26.9% Rarely, 23.5% Never
- Mosquito net: 62.1% Always, 23.3% Often, 14.9% Rarely, 0% Never
- Clean drinking water: 37.0% Always, 47.8% Often, 15.2% Rarely, 0% Never

Psychological Impacts on Rangers

Due to the current epidemic of the poaching of Africa’s wildlife and illegal extraction of natural resources, rangers are increasingly finding themselves in combat situations – for which they are paying a significant price. The effects of this epidemic are not only grievous, but detrimental to rangers’ well-being. Rangers are expected to go beyond their typical role as conservationists to become active players in guerrilla warfare, putting their lives at constant risk. Rising incidents of post-traumatic stress disorder (PTSD), acute stress disorder and burnout fatigue are just some of the effects rangers have to endure as a result of this ongoing assault on our natural heritage.

Added to this, the effects on rangers’ families are a reality that many in the outside world do not consider. These families often live in fear, not only for the lives of their loved ones, but also for their own. Such stress puts major strain on rangers’ families and their ability to maintain a healthy family environment. Although many of the rangers look like military and are seemingly at war, it must be noted that there is a significant difference in that military go to a place of war and then return, however rangers work and live in the war zone often with their families. This is an additional stress Africa’s rangers have to endure.

Chris Galliers
Game Ranger Association of Africa

Dangerous Work

The Thin Green Line Foundation (TGLF) protects nature’s protectors by providing vital support to rangers working on the frontline of conservation.

The Fallen Ranger Fund has supported over 100 families in essential areas including education, housing and assistance in establishing business enterprises. TGLF’s end goal is to support 100 per cent of fallen rangers’ families around the world.

Sean Willmore
Founder of TGLF

I often feel exhausted

- Physically
  - Strongly agree: 40.8%
  - Agree: 45.3%
  - Sometimes: 13.2%
  - Disagree: 16.8%
  - Strongly disagree: 5.1%
- Emotionally
  - Strongly agree: 40.8%
  - Agree: 45.3%
  - Sometimes: 13.2%
  - Disagree: 16.8%
  - Strongly disagree: 5.1%

The medical treatment and basic necessities (toilet and water) that I am provided are adequate

- Strongly agree: 8.4%
- Agree: 34.7%
- Sometimes: 35.6%
- Disagree: 21.4%
- Strongly disagree: 3.3%
Health and Insurance

My employee insurance scheme provides compensation in case of:

- Serious injury on the job: 100%
- Job-related fatality: 100%

I have:
- Spouse: 75.3%
- Children: 83.2%

I live with:
- Spouse: 38.6%
- Children: 35.3%

Understanding and Improving the Ranger Insurance Model

A case study undertaken by WWF and K.M. Dastur & Company (KMD) in Kenya, Cameroon, Thailand, and India reveals the urgent need of reforming insurance support for rangers. The results of the study show that rangers in these countries mostly worry about disability due to accidents and the considerable medical costs associated with occupational injuries. The study shows that rangers are interested to enroll themselves in an insurance scheme but that most do not have adequate earnings and savings to contribute towards such a scheme. This calls for a premium financing mechanism which would combine individual responsibility with targeted subsidies. Such insurance benefits can attract, motivate and retain rangers especially when they are hired on contractual / temporary basis.

A good insurance model will help to create shared infrastructure that lowers transaction costs and provides economies of scale.

Ayandev Saha
General Manager, K.M. Dastur & Company

Training

The training I received when I first started was sufficient for my job responsibilities:

- Strongly agree: 60%
- Agree: 20%
- Disagree: 12%
- Strongly disagree: 8%

I feel that my organization provides sufficient additional training (such as refresher trainings):

- Strongly agree: 80%
- Agree: 12%
- Disagree: 8%
- Strongly disagree: 0%

Within the past 12 months, I went to the following types of training to improve my skills:

- First aid & emergency: 19.2%
- Navigation: 20.4%
- Human wildlife conflict: 21.2%
- Crime scene investigation: 25.6%
- Firearms: 30.9%
- Tracking: 22.1%
- Ranger-based data collection: 23.9%
- Law and regulation: 32.2%
- Engagement / combat: 13.3%
- Wilderness survival: 18.4%
- Patrol: 32.6%

I don’t think the law does a good job of deterring people from committing crimes in the conservation area:

- Strongly agree: 12.6%
- Agree: 33.0%
- Disagree: 42.2%
- Strongly disagree: 12.3%

I’m disappointed with the way courts treat people arrested in the conservation area:

- Strongly agree: 15.1%
- Agree: 41.6%
- Disagree: 37.0%
- Strongly disagree: 6.3%

TO THE OUTSIDE WORLD, WORKING IN THE BUSH CAN SOMETIMES APPEAR TO BE A GLAMOROUS PROFESSION. NO ILLUSIONS SHOULD BE CREATED AS TO THE REALITIES OF THE JOB AT HAND. ALL CONSERVATION EFFORTS IN AFRICA WILL AMOUNT TO VERY LITTLE WITHOUT A WELL-LED, WELL-SUPPORTED, WELL-SKILLED, WELL-RESOURCED, DEDICATED AND MOTIVATED FIELD FORCE.

Chris Galliers
Game Ranger Association of Africa
**Global Overview**

**Community Relations**

Survey responses did not show significant difference between rangers from nearby communities and those from more distant areas. This observation also held true for rangers’ perceptions of local communities and community-ranger relations.

**Rangers from Neighbouring Communities**

Survey responses did not show significant difference between rangers from nearby communities and those from more distant areas. This observation also held true for rangers’ perceptions of local communities and community-ranger relations.

**Importance of Community Trust**

The trust and support of local communities – characterized by a regular and constructive dialogue with rangers – is one of the most critical factors in reducing the likelihood of poaching activities. It encourages communities to act as reliable informants, which in turn makes areas less permeable and appealing to organized poaching groups. This keeps rangers safer, while also serving to reduce any hostility and misunderstanding that can lead to tragic violence between rangers and local peoples.

**Gender**

Although male and female responses to the survey were highly similar overall, there was notable divergence for a few key questions.

When asked if their efforts were fairly rewarded by their organization, 49 per cent of women responded in the affirmative, compared to 59 per cent for men. Similar gaps (between 8-10 per cent) were seen for related questions, such as optimism regarding the potential for promotion and the fairness of their supervisor’s decisions.

The numbers below suggest it would benefit employers to review if women are leaving the profession earlier or at higher rates than men. An aspect of this analysis should include whether gender bias – particularly in recognition and promotion – could be a contributing factor to any such occurrence.

"LAST YEAR I GOT PREGNANT BUT I HAD TO EXECUTE MY RESPONSIBILITIES, INCLUDING GOING FOR PATROLS. WE USUALLY PATROL FOR 15 DAYS BEFORE COMING BACK TO CAMP. I WAS PART OF THE PATROL UNTIL I WAS SIX-MONTHS PREGNANT. IT WAS AN EXPERIENCE I WISHED I COULD AVOID BUT COULDN’T BECAUSE NOT GOING TO THE PATROLS MEANT NO EXTRA ALLOWANCES WHICH I DESPERATELY NEEDED. MOST FEMALE RANGERS DO THIS, WHICH IS EXTREMELY RISKY FOR BOTH MOTHER AND CHILD."
Global Overview

Misconduct

Rangers would report their fellow rangers if they witnessed them accepting a bribe or engage in other corrupt and illegal activities

- Strongly agree: 5.4%
- Agree: 23.8%
- Disagree: 31.2%
- Strongly disagree: 58.2%

I would report a ranger if I witnessed them accepting a bribe or engage in other corrupt and illegal activities

- Strongly agree: 3.4%
- Agree: 9.7%
- Disagree: 31.2%
- Strongly disagree: 55.6%

My organization does a good job reprimanding rangers found to have participated in corrupt activities (such as accepting bribes)

- Strongly agree: 23.8%
- Agree: 58.2%
- Disagree: 12.6%
- Strongly disagree: 5.4%

I would be concerned for my safety if I reported a fellow ranger who I witnessed accepting a bribe or engage in other corrupt and illegal activities

- Strongly agree: 12.6%
- Agree: 31.2%
- Disagree: 17.8%
- Strongly disagree: 9.1%

Over the past 12 months, I was subjected to the following

<table>
<thead>
<tr>
<th>Supervisory Concern</th>
<th>While on duty</th>
<th>While off duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threats</td>
<td>12.6%</td>
<td>10.0%</td>
</tr>
<tr>
<td>Physical violence</td>
<td>8.0%</td>
<td>7.0%</td>
</tr>
<tr>
<td>Sexual harassment/</td>
<td>2.4%</td>
<td>1.7%</td>
</tr>
<tr>
<td>violence</td>
<td>1.2%</td>
<td>0.9%</td>
</tr>
<tr>
<td>Co-workers Community members</td>
<td>12.7%</td>
<td>10.8%</td>
</tr>
<tr>
<td>Verbal abuse/bullying/ harassment</td>
<td>17.8%</td>
<td>18.0%</td>
</tr>
<tr>
<td>Rangers would report their fellow rangers if they witnessed them accepting a bribe or engage in other corrupt and illegal activities</td>
<td>30.8%</td>
<td>32.3%</td>
</tr>
<tr>
<td>My organization does a good job reprimanding rangers found to have participated in corrupt activities (such as accepting bribes)</td>
<td>8.1%</td>
<td>6.2%</td>
</tr>
</tbody>
</table>

IT IS FRIGHTENING TO NOTE THAT OVER 50 PER CENT OF SURVEYED WILDLIFE RANGERS FEAR FOR THEIR OWN SAFETY IF EXPOSING CORRUPTION IN WILDLIFE PROTECTION.

— Arne Strand
Director, U4 Anti-corruption Resource Centre, Norway

Although community members were defined in the survey as ‘those living in or around the conservation area’, it is worth noting that rangers may in some cases have a limited ability to distinguish such ‘locals’ from others who may have entered the area to unlawfully extract or otherwise use local resources. Such cases may have inflated these numbers to some degree. Even so, the statistics are significant and invite further study. For instance, it would be worthwhile to establish how human-wildlife conflict frequency or the age of the protected area impacts these numbers.

Such findings are of great importance given that reduction of conflict and mistrust between rangers and local community members is an essential aspect of protecting the health and safety of both groups. To provide a more complete picture of ranger-community dynamics, a large number of community members will be given similar surveys to learn more about their experience with — and perception of — rangers. These will be delivered in villages close to previous ranger survey sites, with the findings to be included in a follow-up 2019 report.
Africa

<table>
<thead>
<tr>
<th>Average</th>
<th></th>
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<tbody>
<tr>
<td>Age</td>
<td>34.07 years old</td>
</tr>
<tr>
<td>Time in current organization</td>
<td>7.93 years</td>
</tr>
<tr>
<td>Work as a ranger</td>
<td>7.58 years</td>
</tr>
<tr>
<td>Work in current conservation area</td>
<td>5.94 years</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Gender breakdown*</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>♂</td>
<td>1,141</td>
<td>88.8</td>
</tr>
<tr>
<td>♀</td>
<td>144</td>
<td>11.2</td>
</tr>
</tbody>
</table>

*54 respondents did not indicate their gender

Rangers surveyed 1,339

**“I AM PROUD TO BE A FOREST AGENT. MOSTLY TO PROTECT THE FOREST SO THAT OUR CHILD SHOULD SEE THE ANIMALS IN THE FUTURE”**

——— Ranger in Central African Republic

© Greg Armfield / WWF-UK
Regional Overview - Africa

Employment

Benefits from the work that I do

- Yes
- No
- Unsure

I am paid a fair wage

- Strongly agree
- Agree
- Disagree
- Strongly disagree

I am satisfied with my chances for promotion and advancement

- Strongly agree
- Agree
- Disagree
- Strongly disagree

I have access to

- Yes
- No
- Unsure

A union, work council or similar committee that represents employees

- Yes
- No
- Unsure

A union, work council or similar committee that can ‘collectively bargain’ on my behalf

- Yes
- No
- Unsure

I trust my fellow rangers 100 per cent because I cannot go alone to the forest - and if I am wounded, he will be the one to carry me back to the village. We are all wearing the same uniform, so he is more like my brother from the same father and mother.

Type of employment contract

- Permanent
- Limited duration
- No contract

My organization is required to provide notice of termination

- Yes
- No
- Unsure

I have other paid jobs besides being a ranger

- Yes
- No
- Unsure

Benefits from the work that I do

- Overtime compensation
- Extra pay for bad/dangerous work conditions
- Paid sick leave
- Paid annual leave

During the last 12 months

- Yes
- No

I was paid late once

- Yes
- No

My payment was withheld for ≥ 2 months

- Yes
- No

My salary was cancelled

- Yes
- No

Average hours I work weekly

- Total Per Week
- 6 PM-6 AM

I am paid this much in my local currency

- USD 179.30 monthly

I have other paid jobs besides being a ranger

- 2.2% have other jobs

*In data visualizations the colour orange correlates to the more concerning or ‘negative’ response categories for all non-neutral questions

**Quotes with no citation are from rangers who were interviewed after completing the survey.
The equipment provided is sufficient for the work that I do:

- Strongly agree
- Agree
- Disagree
- Strongly disagree
- Not applicable

The problem faced by rangers during patrol is that we don’t have adequate equipment to perform our work, like boots and raincoats.

Lack of equipment leads us to expect results to be poor.

The equipment provided is sufficient for the work that I do:

- On patrol, I have access to:
  - Always
  - Often
  - Rarely
  - Never

- At outpost/station, I have access to:
  - Always
  - Often
  - Rarely
  - Never

When I am on patrol overnight away from my main ranger base, I have access to:

- Building / structure
- Tent
- No shelter

I bought the following equipment with my own money:

- Firearms
- Communication devices
- Navigation equipment
- Shelter
- Uniforms and boots

- Yes
- No
I feel that my organization provides sufficient additional training (such as refresher trainings) - 90% agree, 10% disagree.

Within the past 12 months, I went to the following types of training to improve my skills:
- First aid & emergency: 26.6%
- Navigation: 21.8%
- Human wildlife conflict: 18.8%
- Crime scene investigation: 19.5%
- Law and regulation: 20.1%
- Firearm engagement/combat: 23.1%
- Tracking: 32.4%
- Ranger-based data collection: 39.0%
- Wilderness survival: 17.2%
- Patrol: 30.7%

The organization I work for shows concern for community members’ well-being and quality of life - 33% strongly agree, 67% agree.

I believe community members trust me - 45.9% strongly agree, 21.8% agree, 22.1% disagree, 11.1% strongly disagree.

I believe that part of rangers’ success at their jobs depends on the community providing them with information - 5.7% strongly agree, 22.1% agree, 61.1% disagree, 11.6% strongly disagree.

I am originally from a neighbouring community (within 20km of a park) - 33.1% agree, 66.9% disagree.

“TRAINING OPPORTUNITIES ARE NOT EQUALLY SHARED. THAT IS VERY DISAPPOINTING.”

“I AM FROM THE LOCAL COMMUNITY AND I AM PROUD TO PROTECT THIS BIODIVERSITY AND THESE WILDLIFE SPECIES FOR FUTURE GENERATIONS BECAUSE THEY ARE FACING THE CURSE OF EXTINCTION. I WANT MY CHILDREN TO BE ABLE TO SEE ELEPHANTS AND GORILLAS.”
Regional Overview - Africa

Health and Insurance

I think that being a ranger is a dangerous job due to chance of

- Encounter poachers
- Encounter wildlife

The medical treatment and basic necessities (toilet and water) that I am provided are adequate

- Medical treatment
- Clean drinking water
- Running water
- Toilet
- Mosquito net

Diseases and injuries that I experienced over the last 12 months

- Malaria
- Dengue
- Other serious disease or infection
- Broken bone
- Other serious injury
- Existing health problem made worse by work

- Strongly agree
- Agree
- Disagree
- Strongly disagree

I often feel exhausted

- Physically
- Emotionally

My employee insurance scheme provides compensation in case of

- Physically
- Emotionally

On patrol, I have access to

- Toilet
- Running water
- Medical treatment
- Mosquito net

At outpost/station, I have access to

- Toilet
- Running water
- Medical treatment
- Mosquito net

My employee insurance scheme provides compensation in case of

- Serious injury on the job
- Job-related fatality

I have

- Spouse
- Children

A FEMALE RANGER TOLD ME OF ANOTHER CHALLENGE THAT THEY FACE, WHICH IS MENSTRUATION CYCLES THAT COME UNEXPECTEDLY WHILE ON PATROL. SHE SAYS SHE KNOWS FEMALES WHO HAVE HAD TO USE THEIR SOCKS IN PLACE OF SANITARY PADS.

Average number of coworkers who accompany me on patrol

4.58 rangers
Over the past 12 months, I was subjected to the following:

- While on duty:
  - Supervisor: 22.0% (14.5%)
  - Co-workers: 19.2% (14.2%)
  - Community members: 5.9% (4.1%)
  - Verbal abuse/bullying/harassment: 2.9% (2.2%)

- While off duty:
  - Supervisor: 23.8% (14.9%)
  - Co-workers: 18.8% (13.2%)
  - Community members: 7.2% (5.4%)
  - Verbal abuse/bullying/harassment: 3.1% (2.2%)

- Overall:
  - Supervisor: 40.8% (25.7%)
  - Co-workers: 43.0% (26.7%)
  - Community members: 19.1% (11.3%)
  - Verbal abuse/bullying/harassment: 3.7% (2.7%)

**SOME RANGERS MAY PARTICIPATE IN CORRUPT ACTIVITIES FOR PERSONAL GAINS, OTHER RANGERS WOULD REPORT THEIR FELLOW RANGERS IF THEY WITNESSED THEM PARTICIPATING IN CORRUPTION. IT IS MY PERSONAL BELIEF THAT CORRUPTION CAN BE MINIMIZED BY STRICT PUNISHMENT, IMMEDIATE TERMINATION FROM JOB AND IMPOSING HEAVY PENALTY ON CORRUPT OFFICIALS.**
South Asia

Average

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Age</td>
<td>40.45 years old</td>
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<tr>
<td>Time in current</td>
<td>14.67 years</td>
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<tr>
<td>organization</td>
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<tr>
<td>Work as a ranger</td>
<td>13.99 years</td>
</tr>
<tr>
<td>Work in current</td>
<td>8.63 years</td>
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<tr>
<td>conservation area</td>
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</table>

Gender breakdown*

<table>
<thead>
<tr>
<th>Gender breakdown*</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male (♂)</td>
<td>1,706</td>
<td>95.8</td>
</tr>
<tr>
<td>Female (♀)</td>
<td>74</td>
<td>4.2</td>
</tr>
</tbody>
</table>

*Three respondents did not indicate their gender

"I feel proud to be a forest guard and I am fortunate enough to carry out this prestigious responsibility for future generations."

---

Ranger in India

© Ola Jennersten / WWF-Sweden
Employment

Regional Overview - South Asia

During the last 12 months

- I was paid late once: 2.9% Yes, 6.5% No, 3.0% Unsure
- I was paid late ≥ 3 times: 6.9% Yes, 57.7% No, 36.6% Unsure
- My payment was withheld for ≥ 2 months: 6.9% Yes, 56.2% No, 36.6% Unsure
- My salary was cancelled: 6.9% Yes, 56.2% No, 36.6% Unsure

Benefits from the work that I do

- I am paid a fair wage: 91.9% Strongly agree, 6.5% Agree, 2.0% Disagree, 3.0% Strongly disagree
- I am satisfied with my chances for promotion and advancement: 11.2% Strongly agree, 26.7% Agree, 26.7% Disagree, 21.2% Strongly disagree
- I am paid this much in my local currency: USD 259.24 monthly
- I have other paid jobs besides being a ranger: 3.0% have other jobs

Average hours I work weekly

- Total Per Week: 76.2 hours
- 6 PM-6 AM: 27.5 hours

Type of employment contract

- Permanent: 86.6% Yes, 7.4% No, 6.0% Unsure
- Limited duration: 4.9% Yes, 17.9% No, 68.2% Unsure
- No contract: 91.9% Yes, 6.0% No, 2.0% Unsure

My organization is required to provide notice of termination

- Yes: 87.4% Yes, 6.9% No, 5.7% Unsure
- No: 6.9% Yes, 17.9% No, 75.2% Unsure
- Unsure: 91.9% Yes, 6.0% No, 2.0% Unsure

I have access to

- A union, work council or similar committee that represents employees: 91.9% Yes, 6.9% No, 2.0% Unsure
- A union, work council or similar committee that can ‘collectively bargain’ on my behalf: 91.9% Yes, 6.9% No, 2.0% Unsure

Being a ranger is a more difficult job than most people have in my country

- 27.5% Strongly agree, 62.7% Agree, 14.4% Disagree, 4.9% Strongly disagree

There are too many tasks assigned for any given job title, and the staff is not paid according to the tasks he completes.

*In data visualizations the colour orange correlates to the more concerning or ‘negative’ response categories for all non-neutral questions

**Quotes with no citation are from rangers who were interviewed after completing the survey
Regional Overview - South Asia

Equipment

The provided equipment is sufficient for the work that I do

![Graph showing the sufficiency of equipment](image)

I bought the following equipment with my own money

![Graph showing equipment bought with own money](image)

TO HAVE THE CONSERVATION WORK DONE PROPERLY, THERE MUST BE SUPPORT FROM THE MANAGEMENT, INCLUDING THE PROPER GEAR THAT IS REQUIRED ON THE GROUND.

![Graph showing support from management](image)
Training

There is a need for training updates, especially in investigation and legal procedures.

The training I received when I first started was sufficient for my job responsibilities

I feel that my organization provides sufficient additional training (such as refresher trainings)

Within the past 12 months, I went to the following types of training to improve my skills

Community Relations

The organization I work for shows concern for community members’ well-being and quality of life

I believe that part of rangers’ success at their jobs depends on the community providing them with information

I believe community members trust me

The community should be handled with care and in a friendly manner. Aggression will not help.
Regional Overview - South Asia

Health and Insurance

Diseases and injuries that I experienced over the last 12 months

- Malaria: 16.0%
- Dengue: 2.5%
- Other serious disease or infection: 21.9%
- Broken bone: 7.4%
- Other serious injury: 11.6%
- Existing health problem made worse by work: 18.8%

For South Asia, this number would be higher if excluding surveys returned from locations that fell outside the malaria zone. Although the region represents only a minority of total survey sites, it was the only survey region with a significant number of such locations, many of which were at a high elevation.

Average number of coworkers who accompany me on patrol: 3.5 rangers

Story of Manzoor

Manzoor Ahmad had been working in the Punjab Wildlife and Park Department in Pakistan for over 34 years. He dedicated much of his life to a special squad that monitored the movements of wildlife and intercepted poaching and illegal hunting. The loss of any life is upsetting, but the loss of a life that helped to protect others and was the sole breadwinner for a family with seven children, is an exceptionally devastating loss.

His family recalled that Manzoor took his responsibility to care for and protect ‘creatures from heaven’ very seriously, and felt immense pride in his job. The importance of this for him was amplified by the thought of his seven children being able to witness the beautiful landscapes that he had the opportunity to patrol.

Manzoor’s family described him as having an unappeased desire to be out in the field, having many interesting stories to bring home and share with his children. But despite his recounts, his family had little idea of the dangers Manzoor was faced with daily. Whilst he was out on patrol, Manzoor was shot dead by poachers on the September 20, 2017, leaving behind an elderly mother, his wife and seven children.

It was not until Manzoor’s family received the news of his death that they realized the extreme dangers faced by rangers every day. In the future, Manzoor’s family hopes that there will be more attention on the plight of rangers working on the conservation frontline and increased support provided to the families left behind.
Misconduct

Over the past 12 months, I was subjected to the following

While on duty While off duty

Supervisor
10.4% 6.2%

Co-workers
10.6% 5.4%

Community members
28.1% 14.9%

Verbal abuse/bullying/harassment
0.9% 0.7%

Threats
7.3% 7.3%

Physical violence
4.1% 3.6%

Sexual harassment/violence
5.3% 2.9%

I FEEL FREE IN SHARING MY THOUGHTS ON PROBLEMS REGARDING FOREST CONSERVATION IN MY FIELD OFFICE AND WITH MY SUPERVISOR. I TRUST MY SUPERVISOR FULLY.

Improved Community Ties in Chitwan

The success in reducing poaching in Chitwan National Park in Nepal illustrates the importance of good relationships between communities and conservation law enforcement staff such as rangers. During the poaching surge of the early 2000’s, communities mentioned how they felt in conflict with park rangers and the Nepalese army who are responsible for assisting with law enforcement in the park. At the time, there were low levels of trust and communication between communities, park rangers, and the army. Over the following years, processes for the communities around Chitwan to have regular dialogue with park rangers and the army have been established. Moreover, army staff assist the communities with patrols in their buffer zones and communities provide valuable information about poaching to the army and rangers. Many community members around Chitwan now feel that the army and rangers are partners, rather than opponents. This change has been a key ingredient of Nepal’s impressive success in reducing poaching.
Southeast Asia

"I’VE LOVED THE FOREST SINCE I WAS LITTLE, AND BOTH MY PARENTS ARE ALSO FOREST RANGERS"

--- Ranger in Indonesia

<table>
<thead>
<tr>
<th>Gender breakdown*</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>♂</td>
<td>1,207</td>
<td>97.0</td>
</tr>
<tr>
<td>♂</td>
<td>37</td>
<td>3.0</td>
</tr>
</tbody>
</table>

*24 respondents did not indicate their gender

<table>
<thead>
<tr>
<th>Average</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>41.75 years old</td>
</tr>
<tr>
<td>Time in current organization</td>
<td>15.70 years</td>
</tr>
<tr>
<td>Work as a ranger</td>
<td>15.40 years</td>
</tr>
<tr>
<td>Work in current conservation area</td>
<td>13.53 years</td>
</tr>
</tbody>
</table>

Rangers surveyed 1,268

© Stephen Belcher Photography / WWF
THE SIZE OF THE FOREST AREA IS NOT PROPORTIONAL TO THE NUMBER OF FOREST RANGERS.
The provided equipment is sufficient for the work that I do:

- **Firearms**
  - Strongly agree: 63.7%
  - Agree: 63.7%
  - Disagree: 9.1%
  - Strongly disagree: 9.1%
  - Not applicable: 9.1%

- **Communication devices**
  - Strongly agree: 36.1%
  - Agree: 63.3%
  - Disagree: 9.1%
  - Strongly disagree: 9.1%
  - Not applicable: 9.1%

- **Navigation equipment**
  - Strongly agree: 49.6%
  - Agree: 36.1%
  - Disagree: 6.2%
  - Strongly disagree: 6.2%
  - Not applicable: 6.2%

- **Shelter**
  - Strongly agree: 49.6%
  - Agree: 36.1%
  - Disagree: 6.2%
  - Strongly disagree: 6.2%
  - Not applicable: 6.2%

- **Uniforms and boots**
  - Strongly agree: 49.6%
  - Agree: 36.1%
  - Disagree: 6.2%
  - Strongly disagree: 6.2%
  - Not applicable: 6.2%

- **Strongly agree**
  - Not applicable: 0%
  - Disagree: 18.7%
  - Agree: 29.0%
  - Strongly agree: 42.7%
  - Never: 38.1%

When I am on patrol overnight away from my main ranger base, I have access to:

- **Building / structure**
  - Always: 83.7%
  - Often: 39.4%
  - Rarely: 60.6%
  - Never: 39.4%
  - No shelter: 39.4%

- **Tent**
  - Always: 23.8%
  - Often: 38.1%
  - Rarely: 35.7%
  - Never: 34.9%

- **No**
  - Always: 22.4%
  - Often: 33.7%
  - Rarely: 34.9%
  - Never: 33.7%

I bought the following equipment with my own money:

- **Firearms**
  - Yes: 93.8%
  - No: 6.2%

- **Communication devices**
  - Yes: 83.7%
  - No: 16.3%

- **Navigation equipment**
  - Yes: 93.8%
  - No: 6.2%

- **Shelter**
  - Yes: 83.7%
  - No: 16.3%

- **Uniforms and boots**
  - Yes: 93.8%
  - No: 6.2%

One of the challenges I face as a ranger is that I often must be far from my family and I’m cut off from the outside world. This makes my family worry constantly about me, but they are not able to contact me because of lack of communication means.
Training

The training I received when I first started was sufficient for my job responsibilities

I feel that my organization provides sufficient additional training (such as refresher trainings)

Within the past 12 months, I went to the following types of training to improve my skills:

- First aid & emergency: 22.8%
- Navigation: 34.2%
- Human wildlife conflict: 29.4%
- Crime scene investigation: 33.8%
- Law and regulation: 40.1%
- Ranger-based data collection: 34.6%
- Tracking: 29.2%
- Firearms: 57.7%
- Wilderness survival: 16.9%
- Engagement /combat: 23.5%
- Patrol: 39.6%

Community Relations

The organization I work for shows concern for community members' well-being and quality of life

I believe community members trust me

I believe that part of rangers' success at their jobs depends on the community providing them with information

I am originally from a neighbouring community (within 20km of a park)

THE LOCALS IN THE AREA UNDERSTAND ABOUT CONSERVATION. WE HAVE GOOD RELATIONS WITH THEM, AND NO CONFLICT TO THIS DAY.

IT IS CHALLENGING WHEN WE FACE MEMBERS OF THE COMMUNITY WHO DO NOT UNDERSTAND OUR WORK AND FORESTRY LAWS. THEY SEE US AS THE ENEMY.
Life on the Frontline

Health and Insurance

Regional Overview - Southeast Asia

Malaria case

Malaria infection rates were not uniform between or within survey countries. Some were particularly hard hit – for example, 45 per cent of Cambodian rangers stated that they had contracted malaria within the 12 months prior to responding to the survey.

Diseases and injuries that I experienced over the last 12 months

When we get injured in the jungle it is difficult to get medical treatment, especially for injuries that require a doctor or a hospital. There is no helicopter to lift us out and take us to the hospital for emergency treatment.

The medical treatment and basic necessities (toilet and water) that I am provided are adequate.
Over the past 12 months, I was subjected to the following:

- **While on duty**
  - Threats: 6.0%
  - Verbal abuse/bullying/harassment: 4.3%
  - Physical violence: 0.8%
  - Sexual harassment/violence: 0.2%

- **While off duty**
  - Threats: 10.1%
  - Verbal abuse/bullying/harassment: 7.2%
  - Physical violence: 1.5%
  - Sexual harassment/violence: 0.2%

- **Regional Overview - Southeast Asia**

  **Rangers take bribes not because their salaries are inadequate, they take them because they think no one notices. I don’t know how to report anonymously, but it would be good to be able to report in this way to have those responsible charged.**

**Co-workers**
- Community members:
  - Verbal abuse/bullying/harassment: 24.2%
  - Physical violence: 13.8%
  - Sexual harassment/violence: 26.3%

**Supervisor**
- Verbal abuse/bullying/harassment: 4.3%
- Physical violence: 7.2%
- Sexual harassment/violence: 2.6%
Further Regional Comparison

At nearly 200 questions, the survey also included many ranger perception questions that were not shown in the preceding pages. To provide insight into some of these, the regional variation in thematic groupings of questions is shown below. Higher scores indicate more positive or optimistic responses to questions from each theme.

That survey respondents felt more negatively about their chances for promotion, recognition and fair reward is one item that stands out as problematic in both the African and South Asian regions. In all regions, rangers seemed to express fairly negative perceptions regarding the effectiveness of national institutions in properly punishing and deterring those who commit wildlife crimes and endanger ranger safety.

### Average percentage positive/optimistic response

<table>
<thead>
<tr>
<th>Perception of legal-judicial system</th>
<th>Africa</th>
<th>South Asia</th>
<th>Southeast Asia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>44.6 %</td>
<td>47.0 %</td>
<td>54.7 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical and mental stress</th>
<th>61.9 %</th>
<th>68.8 %</th>
<th>67.5 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job reward</td>
<td>47.8 %</td>
<td>46.8 %</td>
<td>63.4 %</td>
</tr>
<tr>
<td>Job satisfaction</td>
<td>76.8 %</td>
<td>80.3 %</td>
<td>76.8 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relationship with communities</th>
<th>59.5 %</th>
<th>65.5 %</th>
<th>67.6 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relationships with managers and supervisors</td>
<td>58.1 %</td>
<td>64.1 %</td>
<td>67.8 %</td>
</tr>
<tr>
<td>Relationships with co-workers</td>
<td>75.3 %</td>
<td>75.8 %</td>
<td>73.8 %</td>
</tr>
</tbody>
</table>

Number of survey questions for each theme: (1) four, (2) 12, (3) 15, (4) 10, (5) three, (6) ten, (7) 11.
China / Russia Tiger Landscape Case Study

Surveys were delivered to 293 rangers at more than 40 sites across Northeast China and Southeast Russia, mainly in Jilin and Heilongjiang provinces (China) and Primorsky Krai (Russia), with a very limited number from Inner Mongolia (China) and Jewish Autonomous Oblast (Russia).

Overall, results were far more positive when compared to the global averages highlighted earlier in this publication. This held across all major survey categories. Given that the vast majority of these sites either currently have tigers or are central to tiger population recovery and expansion, the results should provide some optimism for the future of the world’s northernmost outpost for that species.

Latin America Preview Survey

Results from the Central America Ranger Well-being and Working Conditions survey suggested that while conditions for the region’s rangers do not appear to be getting worse, there are a number of areas for improvement. Note that this survey is far more limited in scope compared to the one in this publication, and as such far more research is needed in order to draw reliable conclusions.

Here, only around 60 per cent of rangers currently work on permanent contracts and approximately half of the rangers surveyed see their families 5-10 days per month. While over 90 per cent of rangers surveyed feel that they are adequately trained for their jobs, almost three-quarters of them don’t believe that they have the proper equipment and amenities to ensure their safety.

The most frequently reported worst aspect of being a ranger is the dangerous working conditions, with over 70 per cent of respondents having faced a life-threatening situation. Despite this, over 75 per cent of rangers surveyed said they would want their children to become rangers. The primary motivation cited as their reason for becoming a ranger was the chance to be outside in nature.

Based on these preliminary findings, it is suggested that the highest priority for rangers in Central America is to work towards better ensuring both their job security and their safety while in the field. A secondary and related priority is to improve the infrastructure and equipment available to rangers in order to allow them to fulfill their roles to the greatest extent possible.
I Recommendations

Given their critical role in safeguarding valuable natural resources and ecosystem services, as well as protecting the territorial integrity of the countries in which they work, rangers should be further professionalized and supported in a manner commensurate with that of an agency which protects high-value state resources and upholds the rule of law.

In order to professionalize the ranger sector, governments in the survey countries should:

• **Comprehensively analyze survey findings** from their jurisdictions, and use them to draft strategies and policies to improve ranger welfare and effectiveness. The findings should also be used to attempt to leverage more resources or better allocate existing funds.

• **Consult with non-governmental organizations** in this planning to ensure the most impactful and effective distribution of capacity in support of rangers.

• **Design and support further research on rangers** to address the gap in current public sector research, and to facilitate in-depth investigation and understanding on issues of importance to ranger well-being.

As a further step in the direction of professionalizing the ranger sector, governments should:

• **Review and improve training curricula**: a full review of rangers’ training curricula should be undertaken, with particular attention to training in matters that may impact ranger safety. Periodic refresher training in line with other government law enforcement standards should be provided. Organizations specialized in, and familiar with, global best standards (such as the International Ranger Federation Training Guidelines for Field Rangers) should be invited to contribute to the process.

• **Facilitate the building of trust between rangers, and indigenous peoples and local communities**: this must include substantive integration of the issue into ranger training curricula, as well as providing opportunities and fora for constructive dialogue and interaction between rangers and these groups.

• **Act fast to improve ranger safety**: The clearest theme that emerges from the opinions of rangers is that there are considerable safety gaps exposing rangers to severe illness, injury or death. Governments must address these gaps as a matter of priority, particularly by:
  
  > **Guaranteeing access to basic necessities**: with a high proportion of rangers lacking adequate shelter, clean water, boots and clothing, this is of urgent concern.
  
  > **Improving availability and quality of emergency medical care**: plans must be implemented to minimize the response time in delivering qualified medical treatment to an injured ranger in the field. In addition, first aid training needs to be provided to all rangers, and certification should be viewed as prerequisite to patrol work.
  
  > **Providing 100 per cent insurance coverage for serious injury or death**: adequate insurance coverage (to a living wage) must be provided for all rangers – or their families in the case of death.
  
  > **Improving the availability of essential equipment such as communications devices**: governments and their partners should ensure that all areas patrolled by rangers have a suitable communication ‘network’ in place, and that rangers have continuous access to a communication device appropriate to local conditions.
**Acknowledgements**

Partner in survey design, methodology and data analysis

**University of Central Florida**

The University of Central Florida is a thriving preeminent research university located in metropolitan Orlando, U.S. With more than 67,000 students, UCF is one of the largest universities in the country.

The Department of Criminal Justice at UCF provides excellence in teaching, research and service. Dedicated to its students, the faculty delivers outstanding instruction at the undergraduate and graduate levels, incorporating learning, service and inquiry. The department also conducts quality research and pursues local, state and federal funding to advance knowledge in our discipline. By actively developing meaningful partnerships, it provides exemplary service to the university and the broader professional and academic community.

[www.ucf.edu](http://www.ucf.edu)

**Survey delivery**

**Global Tiger Forum**

Global Tiger Forum (GTF) is an inter-governmental and international body established with members from willing countries to embark on a worldwide campaign, common approach, promotion of appropriate programmes and controls to save the remaining five sub-species of tigers in the wild distributed over 14 tiger range countries of the world.

[www.glohtiltgerforum.com](http://www.glohtiltgerforum.com)

**Global Wildlife Conservation**

Global Wildlife Conservation (GWC) protects endangered species and habitats through science-based field action. GWC is dedicated to ensuring that species on the verge of extinction aren’t lost, but prosper well into the future. GWC’s three key goals are to: create and manage parks in the most irreplaceable sites worldwide, develop and implement wildlife recovery plans for key threatened species, and engage and empower current and future conservation leaders worldwide. Through these key goals GWC brings together scientists, conservationists, policy makers, industry leaders and civil society to ensure a truly collaborative approach to species conservation.

[www.globalwildlife.org](http://www.globalwildlife.org)

**KEHATI**

Yayasaan Keanekaragaman Hayati Indonesia (KEHATI), otherwise known as the Indonesian Biodiversity Foundation, is a non-profit, grant-making foundation. The organization was created to mobilize and manage resources to be channeled to other parties in the form of grants, facilitation, consultations, and other assistance to support various programmes in biodiversity conservation and utilization in a fair and sustainable manner.

[www.kehati.or.id](http://www.kehati.or.id)

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**Project delivery**

**IUCN, Bangladesh**

The International Union for Conservation of Nature is an international organization working in the field of nature conservation and sustainable use of natural resources. It is involved in data gathering and analysis, research, field projects, advocacy, and education. Bangladesh joined IUCN as a State Member in 1972. IUCN started its operations in the country in 1989 and established a country office in 1992. To achieve its goals and objectives, IUCN in Bangladesh works in close collaboration with its Members comprising national non-government organizations, with key support from the Ministry of Environment and Forest, a State Member.

[www.iucn.org/asia/countries/bangladesh](http://www.iucn.org/asia/countries/bangladesh)

**Ranger Federation of Asia**

The RFA is a group of conservation-focused individuals who strive to further the standards of the profession and vocation of rangers throughout Asia. The concept for the RFA came into existence at the 7th World Ranger Congress. We are an association of rangers, wildlife wardens, forest guards, foresters, scouts, watchers and other frontline field staff (collectively referred to here as “rangers”). We promote and provide opportunities for members to gain and share their knowledge and experience in all aspects of wildlife conservation and protection work. The RFA is a platform for discussions on matters of interest to rangers and provides opportunities for members to interact with other national and international ranger associations.

[www.rangerfederationasia.org](http://www.rangerfederationasia.org)

**University of Nottingham**

The University of Nottingham Malaysia offers a world-class British education which is ranked among the top 100 universities worldwide. Designed to reflect University Park Campus in Nottingham, it is a self-contained, vibrant village situated on an attractive and landscaped 125-acre site. The University has around 5,000 students and around 700 teaching and administrative staff from all over the world. According to The Graduate Market in 2016, High Fliers Research, our alumni are among Britain’s top choice for employers. We offer the best of UK education in an Asian setting.

[www.nottingham.ac.uk](http://www.nottingham.ac.uk)

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**Elomotion**

Elomotion Foundation is a U.S.-registered, non-profit organization working for the welfare and conservation of Asian elephants in Sri Lanka, and the people connected to them.

[www.elomotion.org](http://www.elomotion.org)
17 COUNTRIES
and 294 conservation
sites in Asia and Africa
where surveys were
delivered

6 CONSERVATION
PARTNERS
participated in survey
delivery in 5 countries

4,686 RESPONSES
collected over the
course of 20 months

197 QUESTIONS
in each survey