Bhutan





Table of Contents

Chapter 1	1
Country Overview	1
Country Overview	2
Key Data	3
Bhutan	4
Asia	5
Chapter 2	7
Political Overview	7
History	8
Political Conditions	10
Political Risk Index	24
Political Stability	39
Freedom Rankings	54
Human Rights	66
Government Functions	68
Government Structure	70
Principal Government Officials	74
Leader Biography	76
Leader Biography	76
Foreign Relations	77
National Security	82
Defense Forces	83
Chapter 3	85
Economic Overview	85
Economic Overview	86
Nominal GDP and Components	89
Population and GDP Per Capita	90
Real GDP and Inflation	91
Government Spending and Taxation	92
Money Supply, Interest Rates and Unemployment	93
Foreign Trade and the Exchange Rate	94
Data in US Dollars	95
Energy Consumption and Production Standard Units	96

Energy Consumption and Production QUADS	97
World Energy Price Summary	98
CO2 Emissions	99
Agriculture Consumption and Production	100
World Agriculture Pricing Summary	102
Metals Consumption and Production	103
World Metals Pricing Summary	105
Economic Performance Index	106
Chapter 4	118
Investment Overview	118
Foreign Investment Climate	119
Foreign Investment Index	121
Corruption Perceptions Index	134
Competitiveness Ranking	146
Taxation	155
Stock Market	155
Partner Links	155
Chapter 5	157
Social Overview	157
People	158
Human Development Index	159
Life Satisfaction Index	163
Happy Planet Index	174
Status of Women	183
Global Gender Gap Index	186
Culture and Arts	196
Etiquette	196
Travel Information	197
Diseases/Health Data	206
Chapter 6	212
Environmental Overview	212
Environmental Issues	213
Environmental Policy	214
Greenhouse Gas Ranking	215
Global Environmental Snapshot	226
Global Environmental Concepts	237

International Environmental Agreements and Associations	251
Appendices	276
Bibliography	277

Chapter 1 Country Overview

Bhutan Review 2016 Page 1 of 289 pages

Country Overview

BHUTAN

Bhutan is a tiny, remote and impoverished kingdom, situated between its powerful neighbors, India and China. Proximity to, and interaction with, British India resulted in British control of Bhutan's foreign affairs in the 19th and early 20th centuries, and a hereditary monarchy was established in 1907. But by 2008, Bhutan had become a two-party parliamentary democracy. Based on agriculture, forestry, and hydroelectricity, Bhutan's economy is one of the smallest and least developed in the world.

Bhutan Review 2016 Page 2 of 289 pages

Key Data

Key Data		
Region:	Asia	
Population:	741919	
Climate:	Varies; tropical in southern plains; cool winters and hot summers in central valleys; severe winters and cool summers in the Himalayas	
Languages:	Dzongkha (official)	
Currency:	1 ngultrum (Nu) = 100 chetrum	
Holiday:	National Day is 17 December (1907), King's Birthday is 11 November	
Area Total:	47000	
Area Land:	47000	
Coast Line:	0	

Bhutan Review 2016 Page 3 of 289 pages

Bhutan

Country Map



Bhutan Review 2016 Page 4 of 289 pages

Asia

Regional Map



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Bhutan Review 2016 Page 5 of 289 pages

Bhutan Review 2016 Page 6 of 289 pages

Chapter 2 Political Overview

Bhutan Review 2016 Page 7 of 289 pages

History

Not much is known about the early history of Bhutan, even though this tiny Himalayan country lies sandwiched between two great civilizations -- Indian and Chinese -- that go back several thousands of years.

The earliest legend about Bhutan is that King Sangaldip, emerging from the environs of Kooch (perhaps the region in northeastern India), subdued the states of Bengal and Bihar, fighting against Raja Kedur of Lakhnante or Gauda. He was, however, defeated by Piran-Visan, general of Afrasiab, King of Turan or Tartary. This legend dates back about the 7th century before the common era (B.C.E.).

Two of the earliest landmarks of Bhutanese history visible today are two 7th century monasteries, the Kyichu Lhakhang in Paro and Jambay Lhakhang in Bumthang. Both these deeply revered monasteries have been preserved and developed over the ensuing centuries.

Following the aforementioned events, there appears to be a void in Bhutanese history.

Bhutan's recorded history begins in the 8th century of the common era (C.E.), when the great Indian saint Padma Sambhava reached Bhutan and soon converted the entire country to Buddhism.

At that time, Khiji-khar-thod of Khempalung, in the Upper Pumthang, and Naguchhi, the king of Sindhu, ruled Bhutan. The ruins of the latter's palace, "Chagkhar Gome" (the iron fort without doors) still exists and is an important source of information about the Bhutan of those days.

Padma Sambhava also converted the rival King Nabudara to Buddhism. Peace was restored to the land, and a boundary pillar set up at Mna-tong. Padma Sambhava also established several sacred religious sites that are important places of pilgrimage for the Buddhist world today. Among them are the Kurjey Lhakhang in Bumthang and the Taktshang (Tiger's Nest) Monastery in Paro.

Another important chapter in Bhutanese history unfolded in the early part of the 13th century with the arrival and spread of the Drukpa or Mahayana Buddhism in the country. A young lama from

Bhutan Review 2016 Page 8 of 289 pages

Tibet arrived under the identity of Sangye-on and was given the name of Fago-Duk-gom-Sigpo. His fame soon spread and aroused the jealousy of Lhapha, a rival lama already residing in Bhutan. Having disposed of his rival, Fago-Duk-gom-Sigpo's power increased greatly. Later, the conversion of the Bhutanese to Buddhism was further assisted by the advent of four lamas, who belonged however to different sects, and were not Drukpas.

In 1616, Nawang Du-gom Dorji brought Bhutan under one ruling power and control. He was better known as Shabdrung Ngawang Namgyel. This marked the beginning of the most dynamic era in Bhutanese history. Over the next 30 years Shabdrung Ngawang Namgyal unified the country and established the foundations for national governance and the Bhutanese identity.

Starting with the Simtokha Dzong (a Buddhist monastery) in Thimphu, the Shabdrung (meaning "at whose feet one submits") constructed important dzongs, monasteries, and religious institutions and firmly established Drukpa Kagyu as the state religion.

The Shabdrung also left as his legacy the dual system of government -- the temporal and theocratic -- with "Je Khenpo" (chief abbot) as the religious head and the temporal leader known as the "Desi." This system took Bhutan to the beginning of the 20th century, until the birth of the Wangchuk dynasty and the establishment of the hereditary monarchy in 1907.

After the rule of Desis and "Je Khenpos", the Trongsa Penlop, Jigmi Namgyal, emerged as a strong leader and was succeeded in 1881, by his dynamic son, Ugen Wangchuk. It was Gongsar Ugen Wangchuk who brought the entire nation under his rule, ending generations of strife and conflict.

In 1907, a historic assembly of the clergy, the official administration and the people unanimously elected Gongsar Ugen Wangchuk as the first hereditary king of Bhutan.

Gongsar Ugen Wangchuk reigned until his death in 1926. His son Jigme Wangchuk, who ruled the kingdom until 1952, succeeded him. The reigns of the first two kings were marked by political stability.

It was the third king, Jigme Dorji Wangchuk, who gently introduced the process of modernization. Known as the "Father of the Modern Bhutan," King Jigme Dorji Wangchuk initiated planned development and thus began the dramatic changes in the quality of life of the people. He also enhanced the kingdom's global role, making Bhutan a member of the United Nations and other international organizations. King Jigme Dorji Wangchuk ruled from 1952 to 1972.

In 1972, King Jigme Singye Wangchuk became the youngest monarch in the world. With a strong emphasis on preserving the rich religious and cultural heritage, the dynamic young monarch then steered the kingdom through more than 20 years of development, with the aim of preparing it for

Bhutan Review 2016 Page 9 of 289 pages

the dynamic environment of the 21st century.

Just as religious landmarks characterize the kingdom's history, the influence of religion is highly visible in everyday life of the lay population. Bhutan is a spiritual nation. Hundreds of sacred monasteries, stupas, religious institutions, prayer flags and prayer wheels that dot the countryside provide a strong infrastructure and atmosphere for the teachings of their living faith.

In both urban and rural Bhutan, religious ceremonies and rituals are performed regularly and with reverence. On auspicious days Bhutanese families make pilgrimages to monasteries to offer prayers and butter lamps. The horoscope of Bhutanese life is drawn from the scriptures.

National and regional festivities, coinciding with the seasons, are major events for the entire population the year round. The Buddhist world regards the kingdom with special importance as the last bastion of Mahayana Buddhism.

Supplementary sources The Kathmandu Post, Bhutanese government, rediff.com, IPCS, New Delhi.

Note on History: In certain entries, open source content from the State Department Background Notes and Country Guides have been used. A full listing of sources is available in the Bibliography.

Political Conditions

Introduction: Identity Politics

Though the Bhutia majority and the Nepalese minority have lived in peace with each other for several centuries, tensions between the two communities have been on the rise in the last decade. This tension has been the source of the biggest worry for the Bhutanese government and also the biggest threat of destabilizing the system. The first signs of concern were noticed in the late 1980s, when people of Nepalese origin in the neighboring Indian state of West Bengal began agitating for a separate state,

The Bhutanese government became increasingly concerned about ethnic separatism and the threat that such sentiment might pose to the territorial integrity of Bhutan. As a countermeasure, the

Bhutan Review 2016 Page 10 of 289 pages

government sought to preserve Bhutan's cultural identity through a "one nation, one people" policy called "driglam namzha" (national customs and etiquette).

Hoping to achieve integration by strengthening aspects of traditional culture, the government required national dress, the "kira" for women and the "gho" for men, in public places, and insisted that individual conduct be based on Buddhist precepts. The standardization and popularization of Dzongkha, the primary national language, was also stressed. The government even sponsored such programs as the preservation of folk songs used in new year and marriage celebrations, house blessings and archery contests.

These measures drew the expected backlash from the Nepalese minority. In 1988, ethnic Nepalese protested against perceived discrimination. They demanded exemption from the government decrees aimed at enhancing Bhutanese "driglam namzha" (national identity). They were presumably inspired by pro-democracy activities in their homeland as well as by democratic, Marxist and Indian social ideas gleaned during their migration through, or education in, India. A large number of Nepalese origin people also fled into Nepal, where they were housed in temporary shelters by the Nepalese government.

Some Nepalese-majority communities reacted to the government's "one nation, one people" programs by attacking people of non-Nepalese origin. Meanwhile, members of the Nepalese segment of the population who had fled Bhutan launched protests in Nepal and India.

The "Druk Gyalpo" -- that is, the chief of state and head of government -- was accused of "cultural suppression," and opposition leaders charged his government with human rights violations, including the torture of prisoners; arbitrary arrest and detention; denial of due process; and restrictions of freedom of speech and press, peaceful organization and assembly, and workers' rights.

More than 20,000 people participated in anti-government protest marches. Some protesters crossed the border from West Bengal and Assam into six Bhutan districts to join the Bhutanese marches. S.K. Neupane and other members of the banned Bhutan People's Party organized the marchers, reportedly urging the demonstrators to demand democracy and human rights for all Bhutanese citizens. Some villagers willingly joined the protests; others did so under duress.

The government branded the party, allegedly established by anti-monarchists and backed by the Nepali Congress Party and the Marxist-Leninist faction of the Communist Party of Nepal, an alleged terrorist organization.

The party supposedly led its members in raids on villages in southern Bhutan, disrobing people wearing traditional Bhutanese garb; extorting money; and robbing, kidnapping and killing people. Reportedly, there were hundreds of casualties, although the government admitted to only two

Bhutan Review 2016 Page 11 of 289 pages

deaths among security forces. Other sources indicated that more than 300 people were killed, 500 wounded, and 2,000 arrested in clashes with security forces.

Along with the above-mentioned violence, vehicle hijackings, kidnappings, extortion, ambushes and bombings took place; schools were closed (some were destroyed); and post offices, police, health, forest, customs and agricultural posts were destroyed.

Meanwhile, in support of the expatriate Nepalese, the general secretary of the Nepali Congress Party, the ruling party in Nepal, called on the "Druk Gyalpo" to establish a multi-party democracy.

In 1989, the government also moved to implement the Citizenship Act of 1985, which provided that only those Nepalese immigrants who could show they had resided in Bhutan for 15 or 20 years (depending on occupational status), and met other criteria, might be considered for grants of citizenship by nationalization. An earlier law, passed in 1958, had granted Bhutanese citizenship to Nepalese landed settlers who had been in Bhutan for at least 10 years. In addition, it was mandated that schools only teach Dzongkha; Nepali ceased to be a language of instruction in schools.

The measures clearly served to exacerbate interethnic tensions. Other measures, however, garnered less controversial effects. Specifically, inter-ethnic marriages among citizens, once forbidden, were allowed as a means of integrating the Nepalese into the wider Bhutanese culture.

The government attempted to explain its cultural identity programs as a defense against separatism and the possible dissolution of Bhutan. The government claimed that its major concern was to avoid a repeat of events that had occurred in 1975 when a Nepalese majority in a plebiscite ousted the monarchy in Sikkim, thus facilitating the area's integration into India. The "Druk Gyalpo" expressed his fear that a continued large influx of Nepalese might generate demand a separate state (in much the same way as had happened in Sikkim).

To regulate and even deter Nepalese migration into Bhutan from India, the "Druk Gyalpo" ordered more regular censuses, improved border checks, and better government administration in the southern districts. With the issue of new multipurpose identification cards by the Ministry of Home Affairs in January 1990, internal travel regulations were made more stringent. These measures, however, did not stop the rising tide of antagonism.

In February 1990, anti-government activists detonated a remote control bomb on a bridge near Phuntsholing and set fire to a seven-vehicle convoy. In September 1990, clashes occurred between demonstrators and the Royal Bhutan Army, which had been ordered not to fire on protesters. Protestors continued to demand that the government recognize separate identities in Bhutan; the government maintained its resistance.

Demonstrators in the south insisted that their party members be allowed to carry the khukri, a

Bhutan Review 2016 Page 12 of 289 pages

traditional Nepalese curved knife, at all times. They also called for the right not to wear the Bhutanese national dress and insisted that schools and government offices stay closed until their demands were met. When their demands were not realized, additional violence and deaths occurred in October 1990.

In addition to government actions against protesters, Bhutanese citizens' militias formed, adding to the violence. In an effort to resolve the situation, the "Druk Gyalpo" made frequent visits to the troubled southern districts, and ordered the release of hundreds of arrested "anti-nationals."

By the end of 1990, the government was forced to admit the serious effects of the anti-government violence. It announced that foreign exchange earnings had decreased and gross domestic product had declined significantly because of protest activities.

By early 1991, the press in Nepal was referring to insurgents in southern Bhutan as "freedom fighters." The Bhutan People's Party claimed that the Royal Bhutan Army had arrested more than 4,000 advocates of democracy. The party charged that some of those arrested had been murdered outside Bhutanese police stations and that some 4,200 persons had been deported.

Expatriate Nepalese political groups in Nepal and India supported the anti-government activities in Bhutan. Between 2,000 and 12,000 Nepalese were reported to have fled Bhutan in the late 1980s, and according to a 1991 report, even high-level Bhutanese government officials of Nepalese origin had resigned their positions and moved to Nepal. Some five million Nepalese were living in settlements in India along the Bhutan border in 1990. The Nepalese were not necessarily welcome in India, where ethnic strife often pushed them back through the largely unguarded Bhutanese frontier. The Bhutan People's Party operated among this large Nepalese community in northern India.

A second group, the Bhutan People's Forum for Human Rights (a counterpart of the Nepal People's Forum for Human Rights), was established in Nepal by a former member of Bhutan's National Assembly, Teknath Rizal. In November 1989, Rizal had reportedly been abducted in eastern Nepal by Bhutanese police and returned to Thimphu, where he was imprisoned on charges of conspiracy and treason. In addition to the Bhutan People's Party and the Bhutan People's Forum for Human Rights, the Bhutan Students' Union and the Bhutan Aid Group-Nepal also were involved in political activism.

Several thousand villagers from southern Bhutan left to live in refugee camps in Nepal in 1989 and the early 1990s. Negotiations between the governments of Nepal and Bhutan over resettling the refugees took place over the course of 1992 and 1993.

In July 1993, the Joint Ministerial Level Committee was established. The two states agreed to determine the status of the refugees claiming to be from Bhutan and to resettle them accordingly.

Bhutan Review 2016 Page 13 of 289 pages

Meetings to determine the ethnicity of the refugees were held throughout 1994 and into 1995. The Bhutanese refugees were divided into the following four categories: true Bhutanese who were forcibly evicted; Bhutanese who emigrated on compelling circumstance; non-Bhutanese; and Bhutanese with criminal records.

Nepal made temporary concessions but frequently reverted to demands that Bhutan allow all refugees who claimed to be Bhutanese to return. Bhutan claimed that more than two-thirds of the refugees were actually Nepalese and asserted that it would allow only "genuine Bhutanese" to repatriate. Bhutan also refused to take back refugees who fell into the second of the categories that they had established. Eight rounds of ministerial talks between Nepal and Bhutan culminated in a stalemate in April 1996, leaving more than 100,000 Bhutanese refugees in eight United Nations-administered camps in eastern Nepal.

After a two and a half-year deadlock, negotiations between Nepal and Bhutan resumed in November 1998. A six-member Nepali team led by Home Minister Govind Raj Joshi met with Bhutan's King Jigme Singye Wangchuk, chairman of the Council of Ministers and Foreign Minister Jigme Thinley, and other high-ranking Bhutanese officials. The two states agreed to meet again in January 1999 in Kathmandu, Nepal and resume discussions concerning the refugee situation. These talks have taken place, but no final agreement was reached.

Political Developments in the 1990s

Bhutan's political concerns in the 1990s were not limited to ethnic strife and the refugee situation with Nepal. Rumors persisted that the exiled family of Yangki, the late mistress of "Druk Gyalpo," and her child, an "illegitimate pretender to the throne," were garnering support among conservative forces in Bhutan.

In addition, there was an ongoing debate in Bhutan over constitutional reform and democratization. Back in July 1998, the "Druk Gyalpo" relinquished some authority to the "Tshogdu." The "Druk Gyalpo" later dismissed his Council of Ministers, sacking several 20-year veterans. He then nominated several new ministers, whom the Tshogdu confirmed. The "Druk Gyalpo" also gave the "Tshogdu" the authority to force him to abdicate, should two-thirds of its members vote accordingly.

The two main opposition parties reacted quite differently to the reforms. On the one hand, the United Front for Democracy (UFD), which has represented the Buddhist majority, called the reforms a "farce." The UFD asserted that the new powers granted to the "Tshogdu" were rather meaningless, given that the "Druk Gyalpo" had made certain his supporters continued to hold key positions. In particular, the king did nothing to change the indirect selection process for members of the "Tshogdu." District councils choose 105 of the 150 members; Buddhist clergy choose 10

Bhutan Review 2016 Page 14 of 289 pages

members; and the king appoints the remaining 35 members. On the other hand, the Bhutanese Appeal Movement Coordination Council, which has represented the Nepali minority, voiced its approval of the reforms and called on the government to continue its attempts to resolve the refugee situation with Nepal.

Pro-democracy demonstrations again took place in January 1999. Nearly 300 people gathered in the southern town of Phuntsholing, the site of the February 1990 anti-government bombing. The protestors called for government reforms and the repatriation of the refugees in Nepal. Some of these refugees attempted to join the demonstrations, but were stopped by Indian authorities as they attempted to make their way from their camps in eastern Nepal across the Indian state of West Bengal and into southern Bhutan.

In June 1999, the Bhutan Ghorka National Liberation Front, or BGNLF, attempted to organize a mass return to Bhutan of refugees residing in eastern Nepal. A peaceful demonstration was launched on June 11, 1999, in the Bhutanese border town of Phuntsholing, but due to a heavy rainfall, only 84 heads of families made it to the protest; 79 of them were arrested, along with BGNLF secretary general and leader of the demonstration, R.P. Subba. The group said that the mass return program would be rescheduled.

The Nepal-Bhutan Joint Ministerial Level Committee met for three days in mid-September 1999 to discuss the refugee crisis. While the meeting produced no resolution, some progress was made when Bhutan finally agreed to treat refugees of category two in the same terms as category one. Bhutan had previously refused to take back refugees whom they categorized as "Bhutanese who emigrated on compelling circumstances."

Political Developments Since 2000

On Jan. 9, 2000, S.B. Subba, chairman of the Bhutanese Refugee Representative Repatriation Committee, or BRRRC, working in Nepal, declared that Bhutanese refugees would move en masse to Bhutan if nothing happened by May 2000 to resolve the refugee crisis. Announcing the year 2000 as the Year of Peace for Bhutanese Refugee Crisis Resolution and Reconciliation, Subba said BRRRC would change its strategies if repatriation did not take place by Dec. 31, 2000. (The 2000 date would come and go with no such outcome.)

Another secretary-level meeting between the foreign ministries of Nepal and Bhutan took place in Thimpu on Feb. 14, 2000. The talks focused on the four-category verification process. Another round of meetings was held in early March to discuss the different aspects of the verification process. The United Nations High Commissioner for Refugees announced in May 2000 that the governments of Bhutan and Nepal had agreed to start a process of verification which would lead to the repatriation of the Bhutanese refugees.

Bhutan Review 2016 Page 15 of 289 pages

Concordance did not come about until the 10th round of negotiations that were held in December 2000. By this time, international pressure had mounted on both sides to resolve the long pending issue as soon as possible. During these talks the two sides agreed to commence a joint verification of the refugees in the camps in Nepal in order to determine their nationality status, with a view to their ultimate repatriation to Bhutan.

Things moved rapidly after this agreement. The two countries nominated their members on the joint verification team in January 2001 and the team made its first visit to the eight camps run by the United Nations, in February 2001. Bhutan also agreed to verify the refugees on the basis of family lineage rather than individuals, as had been demanded earlier.

While agreeing to the appointment of the team and the visit to the camps, Bhutan, too, extracted a price from the Nepalese government. The Nepalese government had to ensure that while the process of verification continued, there would be no activism in the camps.

Some international organizations were concerned that although the process of verification had begun, it was not in accordance with the international standards and several refugees had been denied the right to return to Bhutan. The organizations also urged the United Nations high commissioner for refugees to maintain a more active presence in the refugee camps in order to provide information and also closely monitor the verification process itself.

Throughout the rest of 2001, the two countries failed to reach any settlement despite holding 11 rounds of discussions. The earlier progress on the joint verification process notwithstanding, the four sessions over two days, held in Kathmandu in November 2001, proved inconclusive as both sides stuck to their respective stance on the categorization of the refugees. While Nepal favored two categories, Bhutanese and non-Bhutanese, Bhutan insisted the refugees should be classified into two additional categories "Bhutanese who emigrated willingly" and "Bhutanese with criminal records," as per the 1994 agreement between the two countries.

The two sides, however, decided to continue trying to end the dispute by holding a 12th Ministerial Joint Committee meeting in the Bhutanese capital Thimpu in early 2002. Meanwhile, the process of verification of the refugees at the Khudunabari camp in Jhapa district in eastern Nepal continued despite the deadlocked talks. The process was to be completed by the end of December 2001, and would be followed by consultations between the two governments. Then, the Joint Verification Team would select the place to start categorization. The verification procedures in Khudunabari were completed on schedule and the refugee community asked that the process be extended to other camps.

The failure of the talks noted above resulted in predictable anger by the 100,000 refugees who were staying in camps in Nepal for over a decade. The leaders of the refugees threatened to launch

Bhutan Review 2016 Page 16 of 289 pages

an agitation to ensure their repatriation. Chairman of the Bhutanese Refugee Repatriation Committee, or B.R.R.C., S. B. Subba said the refugees had no other option but to "internationalize" the issue. The refugees also criticized the Bhutanese idea of categorization saying it was a Bhutanese tactic of hoodwinking Nepal's efforts to repatriate the Lhotsampas, languishing in seven camps in eastern Nepal for over a decade.

By August 2002, with no progress on the issue of Bhutanese refugees in Nepal, the Bhutanese Refugee Repatriation Committee urged the Nepalese government to seek the assistance of the Indian government in trying to deal with the issue of refugee repatriation to Bhutan. The move came as the Bhutanese Refugee Repatriation Committee, or B.R.R.C., resigned itself to the reality that resolution could not be reached. Presumably, this strategy was part of the committee's "internationalization" efforts. At the time of the initial request, the Indian government refused noting that it was a bilateral matter.

In 2003, Bhutan and Nepal undertook their controversial joint screening of the refugees. The plan to repatriate refugees to Bhutan was to follow soon thereafter, however, the verification process garnered massive international criticism as only three percent of all people claiming to be refugees were deemed as such according to the verification process. Consequently, the vast majority of people claiming to be refugees have been left out of the process.

Meanwhile, in December 2001, a committee of eminent personalities and representatives of the government, people and the clergy set about a historic task. Their job was to write the first-ever constitution for the Kingdom. The committee was constituted following a decree by Bhutan's King Jigme Singye Wangchuk in September that the country should have a written constitution.

In briefing members of the drafting committee, the king said that the basic purpose of the constitution was to ensure the sovereignty and security of the nation and the well-being of the Bhutanese people for all time to come. The king, who has taken a number of path-breaking decisions in his 25-year-long rule, said that the political system of the country must evolve so that the people can continue to enjoy peace and prosperity, justice and fundamental rights.

The drafting committee was comprised of 39 members and was chaired by Bhutan's Chief Justice Lyonpo Sonam Tobgye. The members included the Speaker of the National Assembly and one representative each from the 20 dzongkhags, the chairman and members of the Royal Advisory Council, five representatives of the government, and two lawyers from the High Court. The constitution was to be the first step towards the democratization of Bhutan.

In December 2002, the first draft of the new constitution was presented for discussion. The new draft constitution set forth the evolution of Bhutan's traditional monarchy into a constitutional monarchy as well as a parliamentary democracy.

Bhutan Review 2016 Page 17 of 289 pages

From late 2002 to 2004, the biggest challenge facing Bhutan was the infiltration of insurgents in its territory. Since the mid-1990s, Bhutan has seen a rise of insurgency in its southern and western parts, especially along the borders with India.

Traditionally, the Bhutanese army has been posted on the northern borders with China, while the borders with India were left totally porous without any military checkpoints at all. This was partially due to the defense treaty between the two countries and also because there is no perception of a threat from India. However, in the last few years, India and Bhutan have faced a situation where insurgents from north-eastern India increasingly use the mountainous and forest covered terrain of southern Bhutan as their bases for launching operations against India.

Initially, neither India nor Bhutan realized the enormity of the problem or the extent to which the militants had infiltrated into Bhutan. It was only in 1997 that the extent of the problem was realized by the Bhutanese authorities who immediately clamped down on the militant camps. However, the government began employing non-military actions, like cutting off supplies to the militants' camps, legal action against those helping the militants and a peaceful dialogue to persuade the militants to leave the country. The military action was reserved for use only if all other measures failed.

While India pressed Bhutan to take immediate military action against the militants, Bhutan opted to deal with the issue at a more leisurely pace. Another factor hampering Bhutan's action on the issue is that its defense forces are very small and, perhaps, not adequately equipped to take on the well-armed militants in a direct confrontation.

Bhutan began by setting up military posts along the southern border with India in 1997. However, four years later in 2001, as the government failed to achieve the objective through peaceful means, the military was deployed. India also suggested conducting joint operations against the insurgents, but Bhutan has been less than eager to let the Indian army inside its borders, saying that Bhutan has to be defended by Bhutanese army only. Bhutan also fears there would reprisals against its own civilian population by the insurgents if it mounts a joint operation with India.

Meanwhile, in mid-2001, Bhutan announced an agreement with one of the insurgents groups which had reportedly agreed to shut four out of nine camps in Bhutanese territory. A December 2001 deadline was set as the date when all such groups and camps would leave Bhutan. Indian pressure continued to mount, especially as the deadline approached for insurgents to disband and leave Bhutan. Thus, in December 2001, the Bhutanese army was deployed in the southern parts of the Kingdom; the measure was viewed as a prelude to a sustained military operation against the insurgents. By 2003, however, the Indian government asserted that most insurgent camps were still in existence

In mid-2003, Bhutan's government said it would try one last time to persuade insurgents to leave after a deadline set for them to leave expired. In an interview with *BBC News*, Bhutan's Foreign

Bhutan Review 2016 Page 18 of 289 pages

Minister Jigme Thinley said his government wished to expend a final push to the leaders of the two main insurgency groups -- United Liberation Front of Assam (ULFA) and the National Democratic Front of Bodoland (NDFB) -- to leave. He said there would be a final round of talks before resorting to the use of force with consent from the government. Rebel leaders, however, said they had been unable to leave due to the significant presence of Indian security forces along the border.

In December 2003, Bhutanese soldiers were ensconced in a battle with Indian separatist rebels as they attempted to expel the rebels from their bases in the southern part of the country.

By 2004, the rebels announced they would commence attacks against people in vehicles as they pass through the border regions. Presumably, the attacks against people -- mostly Bhutanese -- was in retaliation for the government's decision to work with the government of India to crackdown on the transborder separatists. Indeed, a Bhutanese offensive against Indian militant separatists had taken place in which 100 rebels were killed and 400 people were arrested. Consequently, the government of Bhutan declared that all vehicles, private and government alike, that were traveling from the Indian states of West Bengal and Assam across the border into Bhutan, would be compelled to have armed escorts.

In March 2005, the country's new constitution, which was intended to transform its absolute monarchy into a two-party democratic system, was fully completed. The new constitution included 34 articles on the respective roles of the monarchy, clergy and citizenry. The new constitution, which took four years to draft, was set to be ratified by referendum and then, go into effect by 2008.

Once ratified, the constitution would effectively replace the royal decree of 1953, which accorded the king absolute power. The king said he was soliciting feedback from all the country's citizens regarding the proposed changes enshrined in the document. The constitution was, thus, the culmination of a democratization process that stood in contrast to the consolidation of monarchical power which took place in nearby Nepal. For his part, Bhutan's King Jigme Singye Wangchuk said, "The country is more important than the king."

A month later, an exiled political group, the National Front For Democracy (NFD), said that the proposed constitution was intended to deflect attention from Bhutan's refugee crisis rather than to introduce real democracy. Exiled political groups like NFD have pointed to the 100,000 Hindu refugees of Nepalese origin who fled Bhutan in 1990 as a result of alleged political repression by the monarchy in the Buddhist kingdom. They have argued that real democracy could only exist if refugees are allowed to return home to Bhutan. The government, however, has said that it would accept only several thousand genuine Bhutanese refugees and no illegal Nepalese immigrants. In September 2005, Bhutan and Nepal agreed to convene talks regarding the refugee issue.

In October 2005, King Jigme Singye Wangchuck initiated a process of public discussions on the

Bhutan Review 2016 Page 19 of 289 pages

constitution across the country. The process was oriented toward ensuring that the constitution had popular consent of the people. It was expected that the discussion process would take several months to complete.

In December 2005, King Jigme Singye Wangchuck announced his plans to abdicate from the throne. He said that the crown prince would ascend to the throne as the new monarch. His abdication would, therefore, take place ahead of the country's scheduled democratic parliamentary elections

On December 14, 2006, the king abdicated from the throne and was succeeded by his son. As such, the new monarch was now King Jigme Khesar Namgyel Wangchuck.

Special Entry: Voters in Bhutan cast votes in first democratic elections

Background:

King Jigme Wangchuck of the Wangchuk dynasty, which assumed power in 1907, announced in 2005 that he was abdicating from the throne and would turn over control to his son. On December 14, 2006, the king abdicated from the throne and was succeeded by his son, King Jigme Khesar Namgyal Wangchuck. The outgoing monarch's decision was intended to move the country away from rule by an absolute monarchy and towards increased democratization. Of particular interest was the fact that he decided to democratize his country despite popular backing for the monarchy. The Himalayan kingdom of Bhutan's first general elections in history were scheduled for March 24, 2008.

Pre-election Developments:

In 2007, attention turned to the impending transition to democracy when mock elections were held in a effort to prepare its citizenry for its first general election in history. The mock elections had been ordered by former King Jigme Wangchuck, and were oriented toward familiarizing the Bhutanese people with the election process and teaching them about the notion of parliamentary democracy, given the fact that the country suffers from a high level of illiteracy and no democratic legacy.

The first practice election held in April 2007 was marked by low turnout. With an eye towards improving the level of participation, Bhutanese officials declared a national holiday a month later, for the purpose of increasing turnout. The concept of the national voting holiday had been recommended by international observers.

Identity Politics:

Bhutan Review 2016 Page 20 of 289 pages

One issue that marred the general spirit of excitement in Bhutan was the status of ethnic Nepalis. At the time of the crafting of the new constitution, exiled political groups, like National Front For Democracy (NFD), argued that real democracy could only exist if ethnic refugees -- mostly ethnic Nepalis -- were allowed to return home to Bhutan.

Back in the 1990s, about 1,000 ethnic Nepalis were deported from Bhutan as a result of the strict enforcement of citizenship regulations. The refugees, were then based in neighboring Nepal, for years continued to demand the right to return. The government, however, said that it would accept only several thousand genuine Bhutanese refugees and no illegal Nepalese immigrants. With this situation unresolved, some militant ethnic Nepali groups threatened to disrupt the forthcoming elections.

This issue came to a head when the country was hit by a series of bomb explosions on January 20, 2008. The bombs had been planted in various parts of the country including the capital of Thimphu, as well as the districts of Samste, Chukha and Dagana. While the explosions appeared to have caused little damage and injured only a handful of people, there were grave concerns about who might be to blame for the attacks. While there were suspicions that angry cadres of disenfranchised people may have been responsible, there was also some speculation that the attacks may have been carried out by Nepali Maoists.

Election Landscape:

The Himalayan kingdom of Bhutan's first democratic elections were scheduled for March 24, 2008. They were to be held in two rounds with the two top contending parties facing off in a second round; however, as there were only two parties looking to gain seats in the National Assembly, the election was expected to extend through the first round on March 24, 2008.

The two major parties in contention were the Druk Phuensum Tshogpa (DPT) and the People's Democratic Party (PDP). The home minister, Lyonpo Jigmi Y Thinley, was the leader of the DPT -- a new political party that was registered in October of 2007. The name of the party in English roughly translates into "Bhutan Harmony Party." The DPT was created by the collaboration of the All People's Party and the Bhutan People's United Party and the newly formed coalition has forged together the ideals of both groups. The People's Democratic Party (PDP), led by Sangay Ngedup, was also founded the previous year. Ngedup had a strong background in governance having served as the prime minister and the agriculture minister of Bhutan.

With two new parties running against each other for 47 National Assembly seats, voters and other observers wondered about the parties' respective capacities to perform as promised. Two main obstacles facing the country have been poverty and youth unemployment. Perhaps reflecting some of these issues, the main focus areas for both the DPT and the PDP have notably included poverty alleviation, infrastructure development and environmental concerns.

Bhutan Review 2016 Page 21 of 289 pages

The main difference between the two lies in the leadership. Whereas PDP leader, Ngedup, was related to the former king by multiple marriages (he was the brother of the four sisters who were married to the king), DPT leader, Thinley, had no personal monarchical connections. Nevertheless, both parties were seeking to represent the people of Bhutan, while at the same time advocating their loyalty to the monarchy, as they traversed this historic path of democratic transformation.

For his part, young King Jigme Khesar Namgyal Wangchuck called on the Bhutanese people to embrace the emerging democracy with "pride and confidence" but urged his fellow citizens to "first and foremost" vote.

Election Eve:

In preparation for the elections, Indian aircraft dropped pamphlets with voting guidelines in remote areas, while horses and other animals transported voting equipment and ballots to various polling stations.

On the eve of the elections, even as Bhutanese people understood and appreciated the move to democratic rule and elected governance, there was also widespread wistfulness. For the most part, people expressed sadness over the end of the monarchical legacy, although the younger King Jigme Khesar Namgyal Wangchuck would remain in his influential position as head of state. The enduring popularity of the monarchy was attributed to what it characterized as "gross national happiness." This notion was based on the king's belief that economic growth should be balanced by respect for both cultural traditions and the broader environment.

Election Results

With the votes counted, results indicated that the Druk Phuensum Tshogpa (DPT) party won the country's parliamentary vote in a landslide victory. The DPT secured 44 of the 47 seats in the new parliament, while the People's Democratic Party (PDP), won three seats. Turnout was high at more than 79 percent of the electorate.

The new government, which would presumably function under former Prime Minister Jigmi Thinley, was expected to continue the path the country was already on -- marked by a commitment to the aforementioned notion of "gross national happiness." The king's influence was also expected to factor highly, albeit not in the form of absolute power.

<u>Update</u>

In November 2008, Jigme Khesar Namgyel Wangchuck was formally crowned as king. It should

Bhutan Review 2016 Page 22 of 289 pages

be noted that the king was actually functioning as the monarch since 2006, as discussed above. Indeed, King Jigme Wangchuck of the Wangchuk dynasty had announced in 2005 that he was abdicating from the throne and turned over control to his son, Jigme Khesar Namgyal Wangchuck, in 2006. However, there was a two year gap between the abdication in 2006 and the formal coronation in 2008 due to concerns over favorable astrological conditions for the formal coronation date.

Parliamentary elections were set to be held in Bhutan over the course of the next few years.

Primer on Bhutan's 2013 parliamentary elections

Parliamentary elections were set to be held in Bhutan. At stake would be the composition of the bicameral "Tshogdu," which consists of the non-partisan National Council (25 seats; 20 members elected by each of the 20 electoral districts (dzongkhags) for four-year terms and five members nominated by the king); and the National Assembly (47 seats; members elected by direct, popular vote for five-year terms).

The last elections to the National Council were held in December 2008, while the previous elections to the National Assembly were held in March 2008. Fresh elections for both parliamentary chambers were thus set to be held in 2013. In the National Council, voters would go to the polls on April 23, 2013; in the National Assembly, voters would go to the polls a few months later (roughly mid-2013, with a first round on May 31, 2013 and a second round on July 13, 2013).

Since the elections to the National Council would involve non-partisans and indirect elections or nominations, the main action would be in the National Assembly. The two main parties contesting the elections to that latter body would be the Bhutan Peace and Prosperity Party (Druk Phuensum Tshogpa) or DPT, and the People's Democratic Party or PDP. In the last elections, the DPT enjoyed a landslide victory in the National Assembly vote; it was to be seen if they would enjoy that level of success again. In 2013, once again, the winner was the DPT, which won the plurality of the vote share over the PDP. Precise results were as follows --

In the National Council, all 20 elected seats were won by independents. In the first round of the elections to the National Assembly, the DPT won 44.52 percent, the PDP won 32.53 percent, other parties took the rest of the vote share; in the second round, the PDP won 54.88 percent and the DPT won 45.12 percent with other parties carrying the rest.

Government Formation:

Note that in July 2013, Prime Minister Tshering Tobgay of the People's Democratic Party or PDP

Bhutan Review 2016 Page 23 of 289 pages

became the new head of government in Bhutan. As noted above, the PDP won the majority of th vote share in the second round of the 2013 elections.

Why are the parliamentary elections in Bhutan important?

Because until recently, there was no written constitution or bill of rights in Bhutan. In 2001, the King commissioned a committee to draft a constitution making Bhutan a constitutional monarchy with provisions for a parliamentary democracy. In 2005, the government released the draft constitution that included provisions to protect the political, civil and human rights of citizens of Bhutan, and transform its absolute monarchy into a democratic system. The country's first general elections in history took place in 2008. These elections in 2013 were telling the story of whether or not Bhutan continues to be an emerging democracy within the international community.

-- January 2016

Written by Dr. Denise Youngblood Coleman, Editor in Chief, <u>www.countrywatch.com</u>; Research sources listed in Bibliography; supplementary sources -- The Nepal Times, Bhutanese government, rediff.com.

Political Risk Index

Political Risk Index

The **Political Risk Index** is a proprietary index measuring the level of risk posed to governments, corporations, and investors, based on a myriad of political and economic factors. The <u>Political Risk Index</u> is calculated using an established methodology by CountryWatch's Editor-in-Chief and is based on varied criteria* including the following consideration: political stability, political representation, democratic accountability, freedom of expression, security and crime, risk of conflict, human development, jurisprudence and regulatory transparency, economic risk, foreign investment considerations, possibility of sovereign default, and corruption. Scores are assigned

Bhutan Review 2016 Page 24 of 289 pages

from 0-10 using the aforementioned criteria. A score of 0 marks the highest political risk, while a score of 10 marks the lowest political risk. Stated differently, countries with the lowest scores pose the greatest political risk. A score of 0 marks the most dire level of political risk and an ultimate nadir, while a score of 10 marks the lowest possible level of political risk, according to this proprietary index. Rarely will there be scores of 0 or 10 due to the reality that countries contain complex landscapes; as such, the index offers a range of possibilities ranging from lesser to greater risk.

Country	Assessment
Afghanistan	2
Albania	4
Algeria	6
Andorra	9
Angola	4
Antigua	8
Argentina	4
Armenia	4-5
Australia	9.5
Austria	9.5
Azerbaijan	4

Bhutan Review 2016 Page 25 of 289 pages

Bahamas	8.5
Bahrain	6
Bangladesh	3.5
Barbados	8.5-9
Belarus	3
Belgium	9
Belize	8
Benin	5
Bhutan	5
Bolivia	5
Bosnia-Herzegovina	4
Botswana	7
Brazil	7
Brunei	7
Bulgaria	6
Burkina Faso	4
Burma (Myanmar)	4.5
Burundi	3

Bhutan Review 2016 Page 26 of 289 pages

Cambodia	4
Cameroon	5
Canada	9.5
Cape Verde	6
Central African Republic	3
Chad	4
Chile	9
China	7
China: Hong Kong	8
China: Taiwan	8
Colombia	7
Comoros	5
Congo DRC	3
Congo RC	4
Costa Rica	8
Cote d'Ivoire	4.5
Croatia	7
Cuba	4-4.5

Bhutan Review 2016 Page 27 of 289 pages

Cyprus	5
Czech Republic	8
Denmark	9.5
Djibouti	4.5
Dominica	7
Dominican Republic	6
East Timor	5
Ecuador	6
Egypt	5
El Salvador	7
Equatorial Guinea	4
Eritrea	3
Estonia	8
Ethiopia	4
Fiji	5
Finland	9
Fr.YugoslavRep.Macedonia	5
France	9

Bhutan Review 2016 Page 28 of 289 pages

Gabon	5
Gambia	4
Georgia	5
Germany	9.5
Ghana	6
Greece	4.5-5
Grenada	8
Guatemala	6
Guinea	3.5
Guinea-Bissau	3.5
Guyana	4.5
Haiti	3.5
Holy See (Vatican)	9
Honduras	4.5-5
Hungary	7
Iceland	8.5-9
India	7.5-8
Indonesia	6

Bhutan Review 2016 Page 29 of 289 pages

Iran	3.5-4
Iraq	2.5-3
Ireland	8-8.5
Israel	8
Italy	7.5
Jamaica	6.5-7
Japan	9
Jordan	6.5
Kazakhstan	6
Kenya	5
Kiribati	7
Korea, North	1
Korea, South	8
Kosovo	4
Kuwait	7
Kyrgyzstan	4.5
Laos	4.5
Latvia	7

Bhutan Review 2016 Page 30 of 289 pages

Lebanon	5.5
Lesotho	6
Liberia	3.5
Libya	2
Liechtenstein	9
Lithuania	7.5
Luxembourg	9
Madagascar	4
Malawi	4
Malaysia	8
Maldives	4.5
Mali	4
Malta	8
Marshall Islands	6
Mauritania	4.5-5
Mauritius	7
Mexico	6.5
Micronesia	7

Bhutan Review 2016 Page 31 of 289 pages

Moldova	5
Monaco	9
Mongolia	5
Montenegro	6
Morocco	6.5
Mozambique	4.5-5
Namibia	6.5-7
Nauru	6
Nepal	4
Netherlands	9.5
New Zealand	9.5
Nicaragua	5
Niger	4
Nigeria	4.5
Norway	9.5
Oman	7
Pakistan	3.5
Palau	7

Bhutan Review 2016 Page 32 of 289 pages

Panama	7.5
Papua New Guinea	5
Paraguay	6.5-7
Peru	7
Philippines	6
Poland	8
Portugal	7.5
Qatar	7.5
Romania	5.5
Russia	5.5
Rwanda	5
Saint Kitts and Nevis	8
Saint Lucia	8
Saint Vincent and Grenadines	8
Samoa	7
San Marino	9
Sao Tome and Principe	5.5
Saudi Arabia	6

Bhutan Review 2016 Page 33 of 289 pages

Senegal	6
Serbia	5
Seychelles	7
Sierra Leone	4.5
Singapore	9
Slovak Republic (Slovakia)	8
Slovenia	8
Solomon Islands	6
Somalia	2
South Africa	7
Spain	7.5
Sri Lanka	5
Sudan	3.5
Suriname	5
Swaziland	5
Sweden	9.5
Switzerland	9.5
Syria	2

Bhutan Review 2016 Page 34 of 289 pages

Tajikistan	4.5
Tanzania	6
Thailand	6.5
Togo	4.5
Tonga	7
Trinidad and Tobago	8
Tunisia	6
Turkey	7
Turkmenistan	4.5
Tuvalu	7
Uganda	6
Ukraine	3.5-4
United Arab Emirates	7
United Kingdom	9
United States	9.5
Uruguay	8
Uzbekistan	4
Vanuatu	7

Bhutan Review 2016 Page 35 of 289 pages

Venezuela	4
Vietnam	5
Yemen	3
Zambia	4.5
Zimbabwe	3

*Methodology

The <u>Political Risk Index</u> is calculated by CountryWatch's Editor-in-Chief and is based on the combined scoring of varied criteria as follows --

- 1. political stability (record of peaceful transitions of power, ability of government to stay in office and carry out policies as a result of productive executive-legislative relationship, perhaps with popular support vis a vis risk of government collapse)
- 2. political representation (right of suffrage, free and fair elections, multi-party participation, and influence of foreign powers)
- 3. democratic accountability (record of respect for political rights, human rights, and civil liberties, backed by constitutional protections)
- 4. freedom of expression (media freedom and freedom of expression, right to dissent or express political opposition, backed by constitutional protections)
- 5. security and crime (the degree to which a country has security mechanisms that ensures safety of citizens and ensures law and order, without resorting to extra-judicial measures)
- 6. risk of conflict (the presence of conflict; record of coups or civil disturbances; threat of war; threats posed by internal or external tensions; threat or record of terrorism or insurgencies)
- 7. human development (quality of life; access to education; socio-economic conditions; systemic concern for the status of women and children)
- 8. jurisprudence and regulatory transparency (the impartiality of the legal system, the degree of transparency within the regulatory system of a country and the durability of that structure)

Bhutan Review 2016 Page 36 of 289 pages

9. economic conditions (economic stability, investment climate, degree of nationalization of industries, property rights, labor force development)

10. corruption (the degree of corruption in a country and/or efforts by the government to address graft and other irregularities)

Editor's Note:

As of 2015, the current climate of upheaval internationally -- both politically and economically -- has affected the ratings for several countries across the world.

North Korea, Afghanistan, Somalia, and Zimbabwe -- retain their low rankings.

Several Middle Eastern and North African countries, such as <u>Tunisia</u>, <u>Egypt</u>, <u>Libya</u>, <u>Syria</u>, <u>Iraq</u> and <u>Yemen</u> were downgraded in recent years due to political instability occurring in the "season of unrest" sweeping the region since 2011 and continuing today. The worst downgrades affected <u>Syria</u> where civil war is at play, along with the rampage of terror being carried out by Islamist terrorists who have also seized control over part of Syrian territory. <u>Iraq</u> has been further downgraded due to the rampage of Islamist terrorists and their takeover of wide swaths of Iraqi territory. <u>Libya</u> has also been downgraded further due to its slippage into failed state status; at issue in <u>Libya</u> have been an ongoing power struggle between rival militias. <u>Yemen</u> continues to hold steady with a poor ranking due to continued unrest at the hands of Houthi rebels, secessinionists, al-Qaida in the Arabian Peninsula, and Islamic State. Its landscape has been further complicated by the fact that it is now the site of a proxy war between <u>Iran</u> and <u>Saudi Arabia</u>. Conversely, <u>Tunisia</u> and <u>Egypt</u> have seen slight upgrades as these countries stabilize.

In Africa, Zimbabwe continues to be one of the bleak spots of the world with the Mugabe regime effectively destroying the country's once vibrant economy, and miring Zimbabwe with an exceedingly high rate of inflation, debilitating unemployment, devolving public services, and critical food shortages; rampant crime and political oppression round out the landscape. Somalia also sports a poor ranking due to the continuing influence of the terror group, al-Shabab, which was not operating across the border in Kenya. On the upside, Nigeria, which was ineffectively dealing with the threat posed by the terror group, Boko Haram, was making some strides on the national security front with its new president at the helm. Mali was slightly upgraded due to its efforts to return to constitutional order following the 2012 coup and to neutralize the threat of separatists and Islamists. But the Central African Republic was downgraded due to the takeover of the government by Muslim Seleka rebels and a continued state of lawlessness in that country. South Sudan -- the world's newest nation state -- has not been officially included in this assessment;

Bhutan Review 2016 Page 37 of 289 pages

however, it can be unofficially assessed to be in the vicinity of "3" due to its manifold political and economic challenges. <u>Burkina Faso</u>, <u>Burundi</u> and <u>Guinea</u> have been downgraded due to political unrest, with <u>Guinea</u> also having to deal with the burgeoning Ebola crisis.

In Europe, <u>Ukraine</u> was downgraded due to the unrest facing that country following its Maidan revolution that triggered a pro-Russian uprising in the eastern part of the country. <u>Russia</u> was also implicated in the Ukrainian crisis due to its intervention on behalf of pro-Russian separatists, as well as its annexation of the Ukrainian territory of Crimea. Strains on the infrastructure of southern and eastern European countries, such as <u>Serbia</u>, <u>Croatia</u>, and <u>Hungary</u>, due to an influx of refugees was expected to pose social and economic challenges, and slight downgrades were made accordingly. So too, a corruption crisis for the Romanian prime minister has affected the ranking of that country. Meanwhile, the rankings for <u>Spain</u>, <u>Portugal</u>, <u>Ireland</u>, and <u>Italy</u> were maintained due to debt woes and the concomitant effect on the euro zone. <u>Greece</u>, another euro zone nation, was earlier downgraded due to its sovereign debt crisis; however, no further downgrade was added since the country was able to successfully forge a bailout rescue deal with creditor institutions. Cyprus' exposure to Greek banks yielded a downgrade in its case.

In Asia, Nepal was downgraded in response to continuous political instability and a constitutional crisis that prevails well after landmark elections were held. Both India and China retain their rankings; India holds a slightly higher ranking than China due to its record of democratic representation and accountability. Increasing violence and political instability in Pakistan resulted in a downgrade for this country's already low rating. Meanwhile, Singapore retained its strong rankings due to its continued effective stewardship of the economy and political stability.

In the Americas, ongoing political and economic woes, as well as crime and corruption have affected the rankings for Mexico, Guatemala, and Brazil. Argentina was downgraded due to its default on debt following the failure of talks with bond holders. Venezuela was downgraded due to its mix of market unfriendly policies and political oppression. For the moment, the United States maintains a strong ranking along with Canada, and most of the English-speaking countries of the Caribbean; however, a renewed debt ceiling crisis could cause the United States to be downgraded in a future edition. Finally, a small but significant upgrade was attributed to Cuba due to its recent pro-business reforms and its normalization of ties with the United States.

Source:

Dr. Denise Youngblood Coleman, Editor in Chief, CountryWatch Inc. www.countrywatch.com

Updated:

2015

Bhutan Review 2016 Page 38 of 289 pages

Political Stability

Political Stability

The **Political Stability Index** is a proprietary index measuring a country's level of stability, standard of good governance, record of constitutional order, respect for human rights, and overall strength of democracy. The <u>Political Stability</u>Index is calculated using an established methodology* by CountryWatch's Editor-in-Chief and is based on a given country's record of peaceful transitions of power, ability of a government to stay in office and carry out its policies vis a vis risk credible risks of government collapse. Threats include coups, domestic violence and instability, terrorism, etc. This index measures the dynamic between the quality of a country's government and the threats that can compromise and undermine stability. Scores are assigned from 0-10 using the aforementioned criteria. A score of 0 marks the lowest level of political stability and an ultimate nadir, while a score of 10 marks the highest level of political stability possible, according to this proprietary index. Rarely will there be scores of 0 or 10 due to the reality that countries contain complex landscapes; as such, the index offers a range of possibilities ranging from lesser to greater stability.

Country	Assessment
Afghanistan	2
Albania	4.5-5
Algeria	5
Andorra	9.5
Angola	4.5-5
Antigua	8.5-9

Bhutan Review 2016 Page 39 of 289 pages

Argentina	7
Armenia	5.5
Australia	9.5
Austria	9.5
Azerbaijan	5
Bahamas	9
Bahrain	6
Bangladesh	4.5
Barbados	9
Belarus	4
Belgium	9
Belize	8
Benin	5
Bhutan	5
Bolivia	6
Bosnia-Herzegovina	5
Botswana	8.5
Brazil	7

Bhutan Review 2016 Page 40 of 289 pages

4
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5
4
5-5
6
0.5
6
3
1.5
9
7
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8
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5
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Bhutan Review 2016 Page 41 of 289 pages

Congo RC	5
Costa Rica	9.5
Cote d'Ivoire	3.5
Croatia	7.5
Cuba	4.5
Cyprus	8
Czech Republic	8.5
Denmark	9.5
Djibouti	5
Dominica	8.5
Dominican Republic	7
East Timor	5
Ecuador	7
Egypt	4.5-5
El Salvador	7.5-8
Equatorial Guinea	4.5
Eritrea	4
Estonia	9

Bhutan Review 2016 Page 42 of 289 pages

Ethiopia	4.5
Fiji	5
Finland	9
Fr.YugoslavRep.Macedonia	6.5
France	9
Gabon	5
Gambia	4.5
Georgia	5
Germany	9.5
Ghana	7
Greece	6
Grenada	8.5
Guatemala	7
Guinea	3.5-4
Guinea-Bissau	4
Guyana	6
Haiti	3.5-4
Holy See (Vatican)	9.5

Bhutan Review 2016 Page 43 of 289 pages

Honduras	6
Hungary	7.5
Iceland	9
India	8
Indonesia	7
Iran	3.5
Iraq	2.5
Ireland	9.5
Israel	8
Italy	8.5-9
Jamaica	8
Japan	9
Jordan	6
Kazakhstan	6
Kenya	5
Kiribati	8
Korea, North	2
Korea, South	8.5

Bhutan Review 2016 Page 44 of 289 pages

Kosovo	5.5
Kuwait	7
Kyrgyzstan	5
Laos	5
Latvia	8.5
Lebanon	5.5
Lesotho	5
Liberia	3.5-4
Libya	2
Liechtenstein	9
Lithuania	9
Luxembourg	9.5
Madagascar	4
Malawi	5
Malaysia	8
Maldives	4.5-5
Mali	4.5-5
Malta	9

Bhutan Review 2016 Page 45 of 289 pages

Marshall Islands	8
Mauritania	6
Mauritius	8
Mexico	6.5-7
Micronesia	8
Moldova	5.5
Monaco	9.5
Mongolia	6.5-7
Montenegro	8
Morocco	7
Mozambique	5
Namibia	8.5
Nauru	8
Nepal	4.5
Netherlands	9.5
New Zealand	9.5
Nicaragua	6
Niger	4.5

Bhutan Review 2016 Page 46 of 289 pages

Nigeria	4.5
Norway	9.5
Oman	7
Pakistan	3
Palau	8
Panama	8.5
Papua New Guinea	6
Paraguay	8
Peru	7.5
Philippines	6
Poland	9
Portugal	9
Qatar	7
Romania	7
Russia	6
Rwanda	5
Saint Kitts and Nevis	9
Saint Lucia	9

Bhutan Review 2016 Page 47 of 289 pages

Saint Vincent and Grenadines	9
Samoa	8
San Marino	9.5
Sao Tome and Principe	7
Saudi Arabia	6
Senegal	7.5
Serbia	6.5
Seychelles	8
Sierra Leone	4.5
Singapore	9.5
Slovak Republic (Slovakia)	8.5
Slovenia	9
Solomon Islands	6.5-7
Somalia	2
South Africa	7.5
Spain	9
Sri Lanka	5
Sudan	3

Bhutan Review 2016 Page 48 of 289 pages

Suriname	5
Swaziland	5
Sweden	9.5
Switzerland	9.5
Syria	2
Tajikistan	4.5
Tanzania	6
Thailand	6
Togo	5
Tonga	7
Trinidad and Tobago	8
Tunisia	5
Turkey	7.5
Turkmenistan	5
Tuvalu	8.5
Uganda	6
Ukraine	3.5-4
United Arab Emirates	7

Bhutan Review 2016 Page 49 of 289 pages

United Kingdom	9
United States	9
Uruguay	8.5
Uzbekistan	4
Vanuatu	8.5
Venezuela	4.5-5
Vietnam	4.5
Yemen	2.5
Zambia	5
Zimbabwe	3

*Methodology

The Political Stability Index is calculated by CountryWatch's Editor-in-Chief and is based on the combined scoring of varied criteria as follows --

- 1. record of peaceful transitions of power (free and fair elections; adherence to political accords)
- 2. record of democratic representation, presence of instruments of democracy; systemic accountability
- 3. respect for human rights; respect for civil rights
- 4. strength of the system of jurisprudence, adherence to constitutional order, and good governance
- 5. ability of a government to stay in office and carry out its policies vis a vis risk credible risks of government collapse (i.e. government stability versus a country being deemed "ungovernable")

Bhutan Review 2016 Page 50 of 289 pages

- 6. threat of coups, insurgencies, and insurrection
- 7. level of unchecked crime and corruption
- 8. risk of terrorism and other threats to national security
- 9. relationship with regional powers and international community; record of bilateral or multilateral cooperation
- 10. degree of economic strife (i.e. economic and financial challenges)

Editor's Note:

As of 2015, the current climate of upheaval internationally -- both politically and economically -- has affected the ratings for several countries across the world. The usual suspects -- North Korea, Afghanistan, and Somalia -- retain their low rankings. The reclusive and ultra-dictatorial North Korean regime, which has terrified the world with its nuclear threats, has exhibited internal instability. Of note was a cut-throat purge of hundreds of high ranking officials deemed to be a threat to Kim Jung-un. Despite their attempts to recover from years of lawlessness, war, and warlordism, both Afghanistan and Somalia continue to be beset by terrorism and turmoil. In Afghanistan, while international forces have seen success in the effort against the terror group, al-Qaida, the other Islamist extremist group, the Taliban, continues to carry out a vicious insurgency using terrorism. In Somalia, while the government attempts to do the nation's business, the terror group, al-Shabab continues to make its presence known not only in Somalia, but across the border into Kenya with devastating results/ Also in this category is Iraq, which continues to be rocked by horrific violence and terrorism at the hands of Islamic State, which has taken over wide swaths of Iraqi territory.

Syria, <u>Libya</u>, and <u>Yemen</u> have been added to this unfortunate echelon of the world's most politically unstable countries. <u>Syria</u> has been mired by the twin hazards of 1. a civil war as rebels oppose the Assad regime; and 2. the rampage of terror being carried out by Islamic State, which also seized control over vast portions of Syrian territory. Meanwhile, the post-Qaddhafi landscape of <u>Libya</u> has devolved into chaos as rival militias battle for control -- the elected government of the country notwithstanding. Rounding out this grim triad is <u>Yemen</u>, which was dealing with a Houthi rebellion, secesionists in the south, as well as the threat of terrorism from al-Qaida in the Arabian Peninsula as well as Islamic State, while also being the site of a proxy war between Shi'a <u>Iran</u> and Sunni <u>Saudi Arabia</u>.

Meanwhile, several Middle Eastern and North African countries, such as Tunisia, Egypt, and

Bhutan Review 2016 Page 51 of 289 pages

Bahrain were downgraded in recent years due to political instability occurring in the "season of unrest" sweeping the region since 2011 and continuing today. All three of these countries have stabilized in recent years and have been upgraded accordingly. In Bahrain, the landscape had calmed. In Egypt, the secular military-backed government has generated criticism for its crackdown on the Muslim Brotherhood; however, the country had ratified the presidency via democratic elections and were on track to hold parliamentary elections as the country moved along the path of democratization. Perhaps the most impressive story was coming out of Tunisia -- the country whose Jasmine Revolution sparked the entire Arab Spring -- and where after a few years of strife, a new progressive constitution was passed into law and a secular government had been elected to power. Tunisia, Egypt, and Bahrain have seen slight upgrades as these countries stabilize.

In Africa, the Central African Republic was downgraded the previous year due to the takeover of the government by Muslim Seleka rebels. Although the country has been trying to emerge from this crisis, the fact of the matter was that it was difficult to halt the precipitous decline into lawlessness in that country. Zimbabwe has maintained its consistently poor ranking due to the dictatorial regime of Mugabe, who continues to hold a tight grip on power, intimidates the opposition, squashes dissent, and oppresses the white farmer population of the country. Moving in a slightly improved direction is Nigeria, which has sported abysmal ratings due to the government's fecklessness in dealing with the threat posed by the Islamist terror group, Boko Haram. Under its newly-elected government, there appears to be more of a concerted effort to make national security a priority action item. Mali was also slightly upgraded due to its efforts to return to constitutional order following the 2012 coup and to neutralize the threat of separatists and Islamists. Political instability has visited <u>Burkina Faso</u> and <u>Burundi</u> as the leaders of those countries attempted to side-step constitutional limits to hold onto power. In **Burundi**, an attempted coup ensued but quelled, and the president won a (questionable) new term in office; unrest has since punctuated the landscape. In <u>Burkina Faso</u>, the political climate has turned stormy as a result of a successful coup that ended the rule of the president, and then a putsch against the transitional government. These two African countries have been downgraded as a result.

It should be noted that the African country of South <u>Sudan</u> -- the world's newest nation state -- has not been officially included in this assessment; however, it can be unofficially assessed to be in the vicinity of "3" due to its manifold political and economic challenges. <u>Guinea</u> has endured poor rankings throughout, but was slightly downgraded further over fears of social unrest and the Ebola heath crisis.

In Europe, <u>Ukraine</u> was downgraded due to the unrest facing that country following its Maidan revolution that triggered a pro-Russian uprising in the eastern part of the country. <u>Russia</u> was also implicated in the Ukrainian crisis due to its intervention on behalf of pro-Russian separatists, as well as its annexation of the Ukrainian territory of Crimea. <u>Serbia</u> and <u>Albania</u> were slightly downgraded due to eruptions of unrest, while <u>Romania</u> was slightly downgraded on the basis of

Bhutan Review 2016 Page 52 of 289 pages

corruption charges against the prime minister. Spain, Portugal, Ireland, and Italy were downgraded due to debt woes and the concomitant effect on the euro zone. Greece, another euro zone nation, was downgraded the previous year due to its sovereign debt crisis; however, the country successfully forged a rescue deal with international creditors and stayed within the Euro zone. Greek voters rewarded the hitherto unknown upstart party at the polls for these efforts. As a result, Greece was actually upgraded slightly as it proved to the world that it could endure the political and economic storms. Meanwhile, Germany, France, Switzerland, the United Kingdom, the Netherlands, and the Scandinavian countries continue to post impressive ranking consistent with these countries' strong records of democracy, freedom, and peaceful transfers of power.

In Asia, Nepal was downgraded in response to continuous political instability well after landmark elections that prevails today. Cambodia was very slighly downgraded due to post-election instability that has resulted in occasional flares of violence. Despite the "trifecta of tragedy" in Japan in 2011 -- the earthquake, the ensuing tsunami, and the resulting nuclear crisis -- and the appreciable destabilization of the economic and political terrain therein, this country has only slightly been downgraded. Japan's challenges have been assessed to be transient, the government remains accountable, and there is little risk of default. Both India and China retain their rankings; India holds a slightly higher ranking than China due to its record of democratic representation and accountability. Increasing violence and political instability in Pakistan resulted in a downgrade for this country's already low rating.

In the Americas, Haiti retained its downgraded status due to ongoing political and economic woes. Mexico was downgraded due to its alarming rate of crime. Guatemala was downgraded due to charges of corruption, the arrest of the president, and uncertainty over the outcome of elections. Brazil was downgraded due to the corruption charges erupting on the political landscape, the stalling of the economy, and the increasingly loud calls for the impeachment of President Rousseff. Argentina was downgraded due to its default on debt following the failure of talks with bond holders. Venezuela was downgraded due to the fact that the country's post-Chavez government is every bit as autocratic and nationalistic, but even more inclined to oppress its political opponents. Colombia was upgraded slightly due to efforts aimed at securing a peace deal with the FARC insurgents. A small but significant upgrade was attributed to Cuba due to its recent pro-business reforms and its normalization of ties with the Unitd States. Meanwhile, the United States, Canada, Costa Rica, Panama, and most of the English-speaking countries of the Caribbean retain their strong rankings due to their records of stability and peaceful transfers of power.

In the Pacific, <u>Fiji</u> was upgraded due to its return to constitutional order and democracy with the holding of the first elections in eight years.

In Oceania, <u>Maldives</u> has been slightly downgraded due to the government's continued and rather relentless persecution of the country's former pro-democracy leader - former President Nasheed.

Bhutan Review 2016 Page 53 of 289 pages

Source:

Dr. Denise Youngblood Coleman, Editor in Chief, CountryWatch Inc. www.countrywatch.com

Updated:

2015

Freedom Rankings

Freedom Rankings

Freedom in the World

Editor's Note: This ranking by Freedom House quantifies political freedom and civil liberties into a single combined index on each sovereign country's level of freedom and liberty. The initials "PR" and "CL" stand for Political Rights and Civil Liberties, respectively. The number 1 represents the most free countries and the number 7 represents the least free. Several countries fall in the continuum in between. The freedom ratings reflect an overall judgment based on survey results.

Country	PR	CL	Freedom Status	Trend Arrow
Afghanistan	6 ?	6	Not Free	
Albania*	3	3	Partly Free	
Algeria	6	5	Not Free	

Bhutan Review 2016 Page 54 of 289 pages

Andorra*	1	1	Free
Angola	6	5	Not Free
Antigua and Barbuda*	3 ?	2	Free
Argentina*	2	2	Free
Armenia	6	4	Partly Free
Australia*	1	1	Free
Austria*	1	1	Free
Azerbaijan	6	5	Not Free
Bahamas*	1	1	Free
Bahrain	6 ?	5	Not Free ?
Bangladesh*	3 ?	4	Partly Free
Barbados*	1	1	Free
Belarus	7	6	Not Free
Belgium*	1	1	Free
Belize*	1	2	Free
Benin*	2	2	Free
Bhutan	4	5	Partly Free
Bolivia*	3	3	Partly Free

Bhutan Review 2016 Page 55 of 289 pages

Bosnia-Herzegovina*	4	3	Partly Free	
Botswana*	3 ?	2	Free	
Brazil*	2	2	Free	
Brunei	6	5	Not Free	
Bulgaria*	2	2	Free	
Burkina Faso	5	3	Partly Free	
Burma	7	7	Not Free	
Burundi*	4	5	Partly Free	Λ
Cambodia	6	5	Not Free	#
Cameroon	6	6	Not Free	
Canada*	1	1	Free	
Cape Verde*	1	1	Free	
Central African Republic	5	5	Partly Free	
Chad	7	6	Not Free	
Chile*	1	1	Free	
China	7	6	Not Free	
Colombia*	3	4	Partly Free	
Comoros*	3	4	Partly Free	

Bhutan Review 2016 Page 56 of 289 pages

Congo (Brazzaville)	6	5	Not Free	1
Congo (Kinshasa)	6	6	Not Free	1
Costa Rica*	1	1	Free	
Cote d'Ivoire	6	5	Not Free	
Croatia*	1 ?	2	Free	
Cuba	7	6	Not Free	
Cyprus*	1	1	Free	
Czech Republic*	1	1	Free	
Denmark*	1	1	Free	
Djibouti	5	5	Partly Free	
Dominica*	1	1	Free	
Dominican Republic*	2	2	Free	\
East Timor*	3	4	Partly Free	
Ecuador*	3	3	Partly Free	
Egypt	6	5	Not Free	
El Salvador*	2	3	Free	
Equatorial Guinea	7	7	Not Free	
Eritrea	7	7 ?	Not Free	
Eritrea	7	7 ?	Not Free	

Bhutan Review 2016 Page 57 of 289 pages

Estonia*	1	1	Free	
Ethiopia	5	5	Partly Free	#
Fiji	6	4	Partly Free	
Finland*	1	1	Free	
France*	1	1	Free	
Gabon	6	5 ?	Not Free?	
The Gambia	5	5 ?	Partly Free	
Georgia	4	4	Partly Free	
Germany*	1	1	Free	
Ghana*	1	2	Free	
Greece*	1	2	Free	
Grenada*	1	2	Free	
Guatemala*	4 ?	4	Partly Free	
Guinea	7	6?	Not Free	
Guinea-Bissau*	4	4	Partly Free	
Guyana*	2	3	Free	
Haiti*	4	5	Partly Free	
Honduras	4 ?	4 ?	Partly Free	

Bhutan Review 2016 Page 58 of 289 pages

Hungary*	1	1	Free	
Iceland*	1	1	Free	
India*	2	3	Free	
Indonesia*	2	3	Free	
Iran	6	6	Not Free	ψ
Iraq	5 ?	6	Not Free	
Ireland*	1	1	Free	
Israel*	1	2	Free	
Italy*	1	2	Free	
Jamaica*	2	3	Free	
Japan*	1	2	Free	
Jordan	6 ?	5	Not Free?	
Kazakhstan	6	5	Not Free	1
Kenya	4	4 ?	Partly Free	
Kiribati*	1	1	Free	
Kosovo	5 ?	4 ?	Partly Free ?	
Kuwait	4	4	Partly Free	
Kyrgyzstan	6 ?	5 ?	Not Free?	

Bhutan Review 2016 Page 59 of 289 pages

Laos	7	6	Not Free	
Latvia*	2	1	Free	
Lebanon	5	3 ?	Partly Free	
Lesotho*	3 ?	3	Partly Free ?	
Liberia*	3	4	Partly Free	
Libya	7	7	Not Free	
Liechtenstein*	1	1	Free	
Lithuania*	1	1	Free	
Luxembourg*	1	1	Free	
Macedonia*	3	3	Partly Free	Π
Madagascar	6 ?	4 ?	Partly Free	
Malawi*	3 ?	4	Partly Free	
Malaysia	4	4	Partly Free	
Maldives*	3 ?	4	Partly Free	
Mali*	2	3	Free	
Malta*	1	1	Free	1
Marshall Islands*	1	1	Free	
Mauritania	6	5	Not Free	

Bhutan Review 2016 Page 60 of 289 pages

Mauritius*	1	2	Free	
Mexico*	2	3	Free	
Micronesia*	1	1	Free	
Moldova*	3 ?	4	Partly Free	
Monaco*	2	1	Free	
Mongolia*	2	2	Free	1
Montenegro*	3	2 ?	Free ?	
Morocco	5	4	Partly Free	1
Mozambique	4 ?	3	Partly Free	
Namibia*	2	2	Free	
Nauru*	1	1	Free	
Nepal	4	4	Partly Free	
Netherlands*	1	1	Free	
New Zealand*	1	1	Free	
Nicaragua*	4	4 ?	Partly Free	
Niger	5 ?	4	Partly Free	
Nigeria	5	4	Partly Free	Ф
North Korea	7	7	Not Free	Ψ

Bhutan Review 2016 Page 61 of 289 pages

Norway*	1	1	Free	
Oman	6	5	Not Free	
Pakistan	4	5	Partly Free	
Palau*	1	1	Free	
Panama*	1	2	Free	
Papua New Guinea*	4	3	Partly Free	
Paraguay*	3	3	Partly Free	
Peru*	2	3	Free	
Philippines	4	3	Partly Free	1
Poland*	1	1	Free	
Portugal*	1	1	Free	
Qatar	6	5	Not Free	
Romania*	2	2	Free	
Russia	6	5	Not Free	#
Rwanda	6	5	Not Free	
Saint Kitts and Nevis*	1	1	Free	
Saint Lucia*	1	1	Free	
Saint Vincent and Grenadines*	2	1	Free	

Bhutan Review 2016 Page 62 of 289 pages

Samoa*	2	2	Free	
San Marino*	1	1	Free	
Sao Tome and Principe*	2	2	Free	
Saudi Arabia	7	6	Not Free	
Senegal*	3	3	Partly Free	
Serbia*	2 ?	2	Free	
Seychelles*	3	3	Partly Free	
Sierra Leone*	3	3	Partly Free	
Singapore	5	4	Partly Free	
Slovakia*	1	1	Free	1
Slovenia*	1	1	Free	
Solomon Islands	4	3	Partly Free	
Somalia	7	7	Not Free	
South Africa*	2	2	Free	
South Korea*	1	2	Free	
Spain*	1	1	Free	
Sri Lanka*	4	4	Partly Free	
Sudan	7	7	Not Free	

Bhutan Review 2016 Page 63 of 289 pages

Suriname*	2	2	Free	
Swaziland	7	5	Not Free	
Sweden*	1	1	Free	
Switzerland*	1	1	Free	1
Syria	7	6	Not Free	
Taiwan*	1 ?	2 ?	Free	
Tajikistan	6	5	Not Free	
Tanzania	4	3	Partly Free	
Thailand	5	4	Partly Free	
Togo	5	4 ?	Partly Free	
Tonga	5	3	Partly Free	
Trinidad and Tobago*	2	2	Free	
Tunisia	7	5	Not Free	
Turkey*	3	3	Partly Free	1
Turkmenistan	7	7	Not Free	
Tuvalu*	1	1	Free	
Uganda	5	4	Partly Free	
Ukraine*	3	2	Free	

Bhutan Review 2016 Page 64 of 289 pages

United Arab Emirates	6	5	Not Free	
United Kingdom*	1	1	Free	
United States*	1	1	Free	
Uruguay*	1	1	Free	
Uzbekistan	7	7	Not Free	
Vanuatu*	2	2	Free	
Venezuela	5 ?	4	Partly Free	
Vietnam	7	5	Not Free	1
Yemen	6 ?	5	Not Free ?	
Zambia*	3	4 ?	Partly Free	
Zimbabwe	6 ?	6	Not Free	

Methodology:

PR and CL stand for political rights and civil liberties, respectively; 1 represents the most free and 7 the least free rating. The ratings reflect an overall judgment based on survey results.

- ? ? up or down indicates a change in political rights, civil liberties, or status since the last survey.
- \uparrow \downarrow up or down indicates a trend of positive or negative changes that took place but that were not sufficient to result in a change in political rights or civil liberties ratings of 1-7.

Source:

This data is derived from the latest edition of Freedom House's Freedom in the World 2010 edition.

Bhutan Review 2016 Page 65 of 289 pages

^{*} indicates a country's status as an electoral democracy.

Available at URL: http://www.freedomhouse.org

Updated:

Reviewed in 2015

Human Rights

Overview of Human Rights in Bhutan

While Bhutan's human rights record improved in recent years, there are still a few problem areas remaining. There has been limited capacity to change the government, however, serious shifts have been implemented to move the country in the direction of democracy. Nonetheless, restrictions on the freedom of speech and press, assembly and association, and the freedom of religion continue to exist.

While there have been very few reports lately of house-to house police searches for dissidents, there have been some isolated cases of arbitrary arrest and detainment for those who speak out against the monarchy.

Discrimination against the Nepali minority continues to be a problem as well. Children in Bhutan, mainly those of Nepali origin or Christian background, face discrimination in their access to the educational system.

Note:

In March 2005, the government released a draft constitution that included provisions to protect the political, civil and human rights of citizens of Bhutan. Also in 2005, Bhutan abolished the death penalty as a form of capital punishment. As well, the country's draft constitution, which was intended to transform its absolute monarchy into a two-party democratic system, included 34 articles on the respective roles of the monarchy, clergy and citizenry. It also ended the royal decree of 1953, which accorded the king absolute power.

On December 14, 2006, the king abdicated from the throne and was succeeded by his son. His decision was intended to move the country away from rule by an absolute monarchy and towards

Bhutan Review 2016 Page 66 of 289 pages

increased democratization. The country's first general elections in history took place in 2008.
Human Development Index (HDI) Rank:
See Social Overview of Country Review for full listing of rankings for all countries.
Human Poverty Index Rank:
N/A
Gini Index:
N/A
Life Expectancy at Birth (years):
66.7 years
Unemployment Rate:
N/A
Population living on \$1 a day (%):
N/A
Population living on \$2 a day (%):
N/A
Population living beneath the Poverty Line (%):
N/A
Internally Displaced People:
N/A
Note-Approximately 105,000 Bhutanese live as refugees in Nepal
Total Crime Rate (%):
N/A

Bhutan Review 2016 Page 67 of 289 pages

Health Expenditure (% of GDP):

Public: 4.1%

% of GDP Spent on Education:

5.2%

Human Rights Conventions Party to:

- International Convention on the Elimination of All Forms of Racial Discrimination (signed but not yet ratified)
- International Covenant on Civil and Political Rights (signed but not yet ratified)
- Convention on the Elimination of All Forms of Discrimination against Women
- Conventions on the Rights of the Child
- Convention relating to the Status of Refugees
- Rome Statute of the International Criminal Court
- *Human Development Index (HDI) is a composite index that measures the level of well-being in 177 nations in the world. It uses factors such as poverty, literacy, life-expectancy, education, gross domestic product, and purchasing power parity to assess the average achievements in each nation. It has been used in the United Nation's Human Development Report since 1993.
- *Human Poverty Index Ranking is based on certain indicators used to calculate the Human Poverty Index. Probability at birth of not surviving to age 40, adult literacy rate, population without sustainable access to an improved water source, and population below income poverty line are the indicators assessed in this measure.
- *The Gini Index measures inequality based on the distribution of family income or consumption. A value of 0 represents perfect equality (income being distributed equally), and a value of 100 perfect inequality (income all going to one individual).
- *The calculation of the total crime rate is the % of the total population which has been effected by property crime, robbery, sexual assault, assault, or bribery (corruption) related occurrences.

Government Functions

Bhutan Review 2016 Page 68 of 289 pages

Constitution:

A draft constitution was unveiled in March 2005; it is expected to be adopted by the new National Assembly in 2008.

Note:

Until recently, there was no written constitution or bill of rights; the 1953 Royal Decree established the "Tshogdu" (National Assembly). But in 2001, the King commissioned a committee to draft a constitution making Bhutan a constitutional monarchy with provisions for a parliamentary democracy. In March 2005, the government released the draft constitution that included provisions to protect the political, civil and human rights of citizens of Bhutan. The country's draft constitution, which was intended to transform its absolute monarchy into a two-party democratic system, included 34 articles on the respective roles of the monarchy, clergy and citizenry. It also ended the royal decree of 1953, which accorded the king absolute power. On December 14, 2006, the king abdicated from the throne and was succeeded by his son. His decision was intended to move the country away from rule by an absolute monarchy and towards increased democratization. The country's first general elections in history took place in 2008.

Executive Authority:

Currently, at the head of the executive branch is the "Druk Gyalpo" or the monarch who is the head of state. The prime minister is the head of government. The cabinet, known as "Lhengye Shungtsog" (Council of Ministers), is nominated by the monarch, approved by the National Assembly; members serve fixed, five-year terms. There is also a Royal Advisory Council (Lodoi Tsokde), whose members are nominated by the monarch.

Note:

King Jigme Wangchuck of the Wangchuk dynasty, which assumed power in 1907, announced in 2005 that he was abdicating from the throne and would turn over control to his son. On December 14, 2006, the king abdicated from the throne and was succeeded by his son, King Jigme Khesar Namgyal Wangchuck. Meanwhile, in March 2005, the government released a draft constitution, which was intended to transform its absolute monarchy into a constitutional monarchy with a two-party democratic system. The draft constitution also ended the royal decree of 1953, which accorded the king absolute power. The outgoing monarch's decision was intended to move the country away from rule by an absolute monarchy and towards increased democratization. Of

Bhutan Review 2016 Page 69 of 289 pages

particular interest was the fact that he decided to democratize his country despite popular backing for the monarchy. The Himalayan kingdom of Bhutan's first general elections in history to the newly-established bicameral parliament were scheduled for March 24, 2008.

Legislative Authority:

The Legislative Branch of government is made up of a bicameral "Tshogdu" (National Assembly). That new bicameral parliament, which recently was established, consists of the non-partisan National Council (25 seats; 20 members elected by each of the 20 electoral districts (dzongkhags) for four-year terms and 5 members nominated by the King); and the National Assembly (47 seats; members elected by direct, popular vote for five-year terms).

Note:

King Jigme Wangchuck of the Wangchuk dynasty, which assumed power in 1907, announced in 2005 that he was abdicating from the throne and would turn over control to his son. On December 14, 2006, the king abdicated from the throne and was succeeded by his son, King Jigme Khesar Namgyal Wangchuck. Meanwhile, in March 2005, the government released a draft constitution, which was intended to transform its absolute monarchy into a constitutional monarchy with a two-party democratic system. The draft constitution also ended the royal decree of 1953, which accorded the king absolute power. The outgoing monarch's decision was intended to move the country away from rule by an absolute monarchy and towards increased democratization. Of particular interest was the fact that he decided to democratize his country despite popular backing for the monarchy. The Himalayan kingdom of Bhutan's first general elections in history to the newly-established bicameral parliament were scheduled for March 24, 2008.

Judicial Authority:

The legal system is based on Indian law and English common law. Until recently, there was a Supreme Court of Appeal (the monarch); High Court (judges appointed by the monarch). However, the constitution (discussed above) establishes a Supreme Court, which will serve as chief court of appeal.

Government Structure

Bhutan Review 2016 Page 70 of 289 pages

Names:

conventional long form:
Kingdom of Bhutan
conventional short form:
Bhutan
local long form:
Druk Gyalkhap
local short form:

Type:

Druk Yul

constitutional monarchy

Executive Branch:

"Druk Gyalpo" (Head of State):

King Jigme Khesar Namgyel WANGCHUCK (since December 2006) after King Jigme Singye WANGCHUCK abdicated the throne; formally crowned in 2008

Note:

King Jigme Wangchuck of the Wangchuk dynasty, which assumed power in 1907, announced in 2005 that he was abdicating from the throne and would turn over control to his son. On December 14, 2006, the king abdicated from the throne and was succeeded by his son, King Jigme Khesar Namgyal Wangchuck. However, there was a two year gap between the abdication in 2006 and the formal coronation in 2008 due to concerns over favorable astrological conditions for the formal coronation date.

Meanwhile, in March 2005, the government released a draft constitution, which was intended to transform its absolute monarchy into a constitutional monarchy with a two-party democratic system. The draft constitution also ended the royal decree of 1953, which accorded the king absolute power. The outgoing monarch's decision was intended to move the country away from rule by an absolute monarchy and towards increased democratization. Of particular interest was the fact that he decided to democratize his country despite popular backing for the monarchy. The Himalayan kingdom of Bhutan's first general elections in history to the newly-established bicameral parliament took place in March 24, 2008.

Head of Government:

Prime Minister Tshering TOBGAY (since July 2013)

Cabinet:

Bhutan Review 2016 Page 71 of 289 pages

"Lhengye Shungtsog" (Council of Ministers); nominated by the monarch, approved by the National Assembly; members serve fixed, five-year terms; there is also a Royal Advisory Council (Lodoi Tsokde), members nominated by the monarch

Legislative Branch:

Bicameral "Tshogdu" (National Assembly):

New bicameral Parliament consists of the non-partisan National Council (25 seats; 20 members elected by each of the 20 electoral districts (dzongkhags) for four-year terms and 5 members nominated by the King); and the National Assembly (47 seats; members elected by direct, popular vote for five-year terms)

Primer on 2013 Parliamentary Elections in Bhutan April-July 2013 --

Parliamentary elections were set to be held in Bhutan. At stake would be the composition of the bicameral "Tshogdu," which consists of the non-partisan National Council (25 seats; 20 members elected by each of the 20 electoral districts (dzongkhags) for four-year terms and five members nominated by the king); and the National Assembly (47 seats; members elected by direct, popular vote for five-year terms).

The last elections to the National Council were held in December 2008, while the previous elections to the National Assembly were held in March 2008. Fresh elections for both parliamentary chambers were thus set to be held in 2013. In the National Council, voters would go to the polls on April 23, 2013; in the National Assembly, voters would go to the polls a few months later (roughly mid-2013, with a first round on May 31, 2013 and a second round on July 13, 2013).

Since the elections to the National Council would involve non-partisans and indirect elections or nominations, the main action would be in the National Assembly. The two main parties contesting the elections to that latter body would be the Bhutan Peace and Prosperity Party (Druk Phuensum Tshogpa) or DPT, and the People's Democratic Party or PDP. In the last elections, the DPT enjoyed a landslide victory in the National Assembly vote; it was to be seen if they would enjoy that level of success again. In 2013, once again, the winner was the DPT, which won the plurality of the vote share over the PDP. Precise results were as follows --

In the National Council, all 20 elected seats were won by independents. In the first round of the elections to the National Assembly, the DPT won 44.52 percent, the PDP won 32.53 percent, other parties took the rest of the vote share; in the second round, the PDP won 54.88 percent and the DPT won 45.12 percent with other parties carrying the rest.

Government Formation:

Bhutan Review 2016 Page 72 of 289 pages

Note that in July 2013, Prime Minister Tshering Tobgay of the People's Democratic Party or PDP became the new head of government in Bhutan. As noted above, the PDP won the majority of th vote share in the second round of the 2013 elections.

Why are the parliamentary elections in Bhutan important?

Because until recently, there was no written constitution or bill of rights in Bhutan. In 2001, the King commissioned a committee to draft a constitution making Bhutan a constitutional monarchy with provisions for a parliamentary democracy. In 2005, the government released the draft constitution that included provisions to protect the political, civil and human rights of citizens of Bhutan, and transform its absolute monarchy into a democratic system. The country's first general elections in history took place in 2008. These elections in 2013 were telling the story of whether or not Bhutan continues to be an emerging democracy within the international community.

Judicial Branch:

Supreme Court of Appeal (the monarch); High Court (judges appointed by the monarch); the new constitution establishes a Supreme Court, which will serve as chief court of appeal

Constitution:

Draft constitution was unveiled in March 2005; ratified 18 July 2008

Note:

Until recently, there was no written constitution or bill of rights; the 1953 Royal Decree established the "Tshogdu" (National Assembly). But in 2001, the King commissioned a committee to draft a constitution making Bhutan a constitutional monarchy with provisions for a parliamentary democracy. In March 2005, the government released the draft constitution that included provisions to protect the political, civil and human rights of citizens of Bhutan. The country's draft constitution, which was intended to transform its absolute monarchy into a two-party democratic system, included 34 articles on the respective roles of the monarchy, clergy and citizenry. It also ended the royal decree of 1953, which accorded the king absolute power. On December 14, 2006, the king abdicated from the throne and was succeeded by his son. His decision was intended to move the country away from rule by an absolute monarchy and towards increased democratization. The country's first general elections in history took place in 2008.

Legal System:

Based on Indian law and English common law; has not accepted compulsory ICJ jurisdiction

Bhutan Review 2016 Page 73 of 289 pages

Political Parties and Leaders:

Bhutan Kuen-Nyam Party or BKP [Sonam TOBGAY]

Bhutan Peace and Prosperity Party (Druk Phuensum Tshogpa) or DPT [Pema GYAMTSHO]

Druck Chirwang Tshogpa or DCT

Druk Nymrub Tshogpa or DNT

People's Democratic Party or PDP [Tshering TOBGAY]

Political pressure groups and leaders:

Bhutan Peace and Prosperity Party (Druk Phuensum Tshogpa) or DPT [Jigme THINLEY]; Bhutan Kuen-Nyam Party or BNK [Sonam TOBGAY]; People's Democratic Party or PDP [Tshering TOBGAY]; Druk Nymrub Tshogpa or DNT; Druck Chirwang Tshogpa or DCT

Suffrage:

18 years of age; universal

Administrative Divisions:

20 districts (dzongkhag, singular and plural); Bumthang, Chhukha, Chirang, Daga, Gasa, Geylegphug, Ha, Lhuntshi, Mongar, Paro, Pemagatsel, Punakha, Samchi, Samdrup Jongkhar, Shemgang, Tashigang, Tashi Yangtse, Thimphu, Tongsa, Wangdi Phodrang

Principal Government Officials

Cabinet and Leadership of Bhutan

Background:

Until recently, there was no written constitution or bill of rights; the 1953 Royal Decree established the "Tshogdu" (National Assembly). But in 2001, the King commissioned a committee to draft a constitution making Bhutan a constitutional monarchy with provisions for a parliamentary democracy. In March 2005, the government released the draft constitution that included provisions to protect the political, civil and human rights of citizens of Bhutan. The country's draft constitution, which was intended to transform its absolute monarchy into a two-party

Bhutan Review 2016 Page 74 of 289 pages

democratic system, included 34 articles on the respective roles of the monarchy, clergy and citizenry. It also ended the royal decree of 1953, which accorded the king absolute power.

King Jigme Wangchuck of the Wangchuk dynasty, which assumed power in 1907, announced in 2005 that he was abdicating from the throne and would turn over control to his son. On December 14, 2006, the king abdicated from the throne and was succeeded by his son, King Jigme Khesar Namgyal Wangchuck. However, there was a two year gap between the abdication in 2006 and the formal coronation in 2008 due to concerns over favorable astrological conditions for the formal coronation date.

The outgoing monarch's decision was intended to move the country away from rule by an absolute monarchy and towards increased democratization. Of particular interest was the fact that he decided to democratize his country despite popular backing for the monarchy. The Himalayan kingdom of Bhutan's first general elections in history were scheduled for March 24, 2008. Fresh elections took place in 2013; see "Government Structure" for details. ***

Cabinet List:

King

Jigme Khesar Namgyel WANGCHUCK

Prime Minister

Tshering TOBGAY

Min. of Agriculture

Yeshay DORJI

Min. of Economic Affairs

Norbu WANGCHUK

Min. of Education

Mingbo DUKPA

Min. of Finance

Namgay DORJI

Min. of Foreign Affairs

Rinzin DORJI

Min. of Health

Tandin WANGCHUK

Min. of Home & Cultural Affairs

Damcho DORJI

Min. of Information & Communication

D. N. DHUNGYEL

Min. of Labor & Human Resources

Ngeema Sangay TSHEMPO

Bhutan Review 2016 Page 75 of 289 pages

Min. of Works & Human Settlements
Dorji CHODEN
Chmn., Royal Advisory Council
Rinzin GYALTSHEN
Governor, Royal Monetary Authority
Daw TENZIN
Permanent Representative to the UN, New York
Kunzang C. NAMGYEL

-- as of 2016

Leader Biography

Leader Biography

The King or "Druk Gyalpo" of Bhutan

In March 2005, the government released a draft constitution, which was intended to transform its absolute monarchy into a constitutional monarchy with a two-party democratic system. The draft constitution also ended the royal decree of 1953, which accorded the king absolute power.

On December 14, 2006, King Jigme Singye Wangchuck abdicated the throne and was immediately succeeded by his son, the new King Jigme Khesar Namgyal Wangchuck. His decision was intended to move the country away from rule by an absolute monarchy and towards increased democratization. In this way, King Jigme Khesar Namgyal Wangchuck became the fifth Dragon King or "Druk Gyalpo" of Bhutan and the head of the Wangchuck dynasty.

It should be noted that there was a two year gap between the abdication in 2006 and the formal coronation in 2008 due to concerns over favorable astrological conditions for the formal coronation

Bhutan Review 2016 Page 76 of 289 pages

date.

King Jigme Khesar Namgyal Wangchuck was born on February 20, 1980 to then King Jigme Singye Wangchuck and his father's third wife, Queen Ashi Tshering Yangdon. As such, he is distinguished as being the youngest head of state in the world.

After completing early education in Bhutan, His Royal Highness studied abroad (in the United States) at Phillips Academy (Andover) and at the Cushing Academy. His post-secondary education took him to Wheaton College, although he pursued further education in Magdalen College, Oxford University. There, His Royal Highness completed the Foreign Service Programme and gained a Masters of Philosophy Degree.

Well-travelled abroad, His Royal Highness has officially representing Bhutan on the international stage. He has also been an avid participant within various cultural, educational and economic institutions.

Note: In November 2008, Jigme Khesar Namgyel Wangchuck was formally crowned as king.

Foreign Relations

General Relations

Historically, Bhutan's foreign policies were greatly influenced by Tibet. Bhutan acknowledged Tibet's influence over it until 1860 and continued to pay a nominal tribute to Tibet until the mid-1940s. From 1865 to 1947, Britain guided Bhutan's foreign affairs. However, after the Indian independence in 1947, Bhutan passed into the Indian orbit and has largely stayed there, despite a redesigning of the bilateral relations between the two countries.

Bhutan Review 2016 Page 77 of 289 pages

The two countries, hence, have a great deal of defense cooperation, with India being the sole equipment provider and trainer for the Royal Bhutan Army. Bhutan's external relations and foreign policy also continue to be in sync with the Indian policies and interests. Even though Bhutan joined international organizations like the United Nations and the Non-Aligned Movement in the 1970s, and the South Asian Association for Regional Cooperation, or SAARC, in the 1980s, the country's foreign policy is rarely in conflict with the Indian views.

Bhutan today actively participates in SAARC and the Non-Aligned Movement; speaks out against, among other subjects, nuclear proliferation and terrorism; and has a head of state who travels abroad widely. Founded in 1985 to promote economic cooperation and social progress in South Asia, SAARC's member countries are Bangladesh, Bhutan, India, Nepal, the Maldives, Pakistan and Sri Lanka. The organization established the SAARC Preferential Trading Arrangement, SAPTA, in 1995 as a first step for SAARC to realize free trade among its member countries. Under SAPTA, 5,700 products enjoy tariff concessions ranging from 7.5 to 100 percent.

Regional Relations

India

Relations between India and Bhutan during the past four decades have been a model of good neighborly dealings. Bonds of shared history, geography, religion, culture and tradition had conditioned the age-old ties between India and Bhutan.

Soon after the Indian independence, India and Bhutan signed a Treaty of Friendship on the Aug. 8, 1949. This treaty laid down the basic framework for a mutually beneficial relationship between two independent states and has been the guiding principle of the bilateral relationship between the two. Eager to keep Bhutan out of the growing Chinese expansionism of 1950s, when China invaded Tibet, India has lent economic, political and military support to Bhutan. The visit of an Indian Planning Commission team to Paro in 1961 initiated the process of India's deep involvement in Bhutan's development.

In 1971, Bhutan received India's genuine and whole-hearted support for its admission to the United Nations. India helped Bhutan in its development process with five-year plans and a countrywide infrastructure of roads, schools, hospitals, farms, industries and hydroelectric power projects. India has been the largest donor ever since Bhutan launched its five-year plan in 1961.

The Chukha Hydel Project, which was inaugurated by Indian President R Venkatraman in 1988, is yet another testimony to India-Bhutan friendship and cooperation. India made a commitment of Rs4 billion (US\$95 million) in technical assistance for Bhutan's seventh plan development thrust that has an outlay of Rs450 million (US\$10 million). The two sides also signed a free-trade

Bhutan Review 2016 Page 78 of 289 pages

agreement in 1990. Travel permits too are not required for travel between the two countries. In order to maintain its friendly relations with Bhutan, India has refused to become involved in the negotiations between Nepal and Bhutan on the issue of the refugees. India has, however, detained refugees from eastern Nepal attempting to enter Bhutan and has also called upon both the sides to resolve the issue as soon as possible.

Because of its geopolitical significance, Bhutan is of great security concerns to India. Any development in Tibet is likely to heighten the security concerns of India and Bhutan. Another dimension of India's security concerns is the border dispute between Bhutan and China. If Bhutan is forced to make any major strategic concession to China, it will have serious implications for India's defense and security and will also upset the current balance of power in the region.

Over the last few years, another element has crept into Indo-Bhutanese relations - the use of Bhutanese soil by militants from northeastern India. India has been particularly concerned by the use of Bhutan by United Liberation Front of Assam, or ULFA- a militant organization from the northeastern Indian state of Assam. With Assam sharing a long, mountainous and forest covered border with Bhutan, ULFA militants easily slip into Bhutan, when being chased by Indian security forces. ULFA has also set up several training camps in Bhutan.

The two countries at several levels have discussed the issue and in July 2000, the king ordered the Royal Bhutanese Army to launch flushing operations against ULFA in Bhutan and to ensure that the militants are not able to use Bhutan as a hideout. The issue had the potential to become a major problem between the two countries, but the quick action taken by the Bhutanese has reassured India and the relationship is back on an even keel.

Despite the success of the initial flushing operations, the separatists have been able to continue to escape into Bhutan with ease, largely due to the forests and mountains that line the border between the two countries, making it almost impossible to detect movements of the guerrillas. The flushing operations also led the separatists to escape deeper into Bhutan near the heavily forested and mountainous terrain of Black Mountain, rendering ineffective any counter-offensive by the Bhutanese or Indian armies.

In late 2001, the Bhutan military was deployed to help flush out the insurgents but in 2002 and well into 2003, the problem persisted.

Indeed, in mid-2003, Bhutan's government said it would try one last time to persuade insurgents to leave its territory after a deadline set for them to leave expired. Government officials said there would be a final round of talks before resorting to the use of force. Rebel leaders, however, said they had been unable to leave due to the significant presence of Indian security forces along the border.

Bhutan Review 2016 Page 79 of 289 pages

In December 2003, Bhutanese soldiers were ensconced in a battle with Indian separatist rebels as they attempted to expel the rebels from their bases in the southern part of the country.

In 2004, the rebels announced it would commence attacks against people in vehicles as they pass through the border regions. Presumably, the attacks against people -- mostly Bhutanese -- was in retaliation for the government's decision to work with the government of India to crackdown on the transborder separatists. Indeed, a Bhutanese offensive against Indian militant separatists had taken place in which 100 rebels were killed and 400 people were arrested.

Consequently, the government of Bhutan declared that all vehicles, private and government alike, that were traveling from the Indian states of West Bengal and Assam across the border into Bhutan, would be compelled to have armed escorts.

Nepal

Nepal and Bhutan established formal diplomatic relations in 1983. However, over the last few years, they have been dogged by tensions over the status of ethnic Nepali population in Bhutan. The situation has already drawn concerns from a large number of international agencies. The Bhutanese say the Nepali minority in Bhutan is out to capture power by raising the bogey of discrimination, democracy and human rights. They point to the events in Sikkim in 1970s when the ethnic Nepalese in the Himalayan Kingdom forced the abdication of the king and led Sikkim to merge with India. The Bhutanese are clearly wary of letting its Nepali community emulate the same example. And Nepal sees the attempts by the Bhutanese government as a clear violation of human rights of the Nepali community, leading to a very terse relationship between the two.

Despite being monarchies and members of SAARC, bilateral relations between Nepal and Bhutan are mere formalities. There have been rare visits at high level and none at the level of heads of states. Bhutan's perceptions of Nepal have been found to be influenced by the following factors: security concerns, fear-psychosis, policy of self-imposed isolation, and the dilemma of the authorities.

Due to the absence of any Bhutan policy on the part of Nepal, no other agenda except refugees have found a place in the bilateral relations. Countless rounds of talks between Nepal and Bhutan on the issue of more than 100,000 Bhutanese refugees who have been languishing at seven refugee camps in Jhapa and Morang districts in the eastern Nepal over the last 10 years have ended inconclusively.

Meanwhile, the process of verification of the refugees at the Khudunabari camp in Jhapa district in eastern Nepal continued and ended successfully despite the deadlocked talks. The refugee community asked that the verification process be extended to other camps. The verification process, however, came under intense criticism in 2003 when only a tiny portion of people in the

Bhutan Review 2016 Page 80 of 289 pages

refugee camps were classified as refugees.

In 2005, the two countries agreed to convene talks on the matter.

China

The geographical location of Bhutan gives it both political and strategic importance in the Himalayan region. China's foreign and defense policy, being of a forward nature, has always held that all territories on its periphery like Mongolia, Tibet and Burma and still farther on like Nepal, Sikkim and Bhutan fall within its area of influence.

Bhutan's "Tshogdu" (National Assembly) has already ratified the interim agreement signed with China on the border dispute which, it hopes, would help remove potential misunderstandings with its giant northern neighbor. Survey Secretary Dasho Pema Wangchuk told the assembly that the Dec. 8, 1998, agreement would be of great benefit to Bhutan because it had eliminated many potential problems which might have arisen during the future rounds of talks between the two sides. He added that the two countries have been engaged in discussions since 1984 and so far 12 rounds had been held. As a result, the disputed territory had been reduced from 1,128 sq. km. to 269 sq. km. in three areas in the northwestern part of Bhutan.

In 1996, the Survey of Bhutan reported that the Chinese were constructing roads and had started logging operations in the areas under discussion. The Bhutanese side expressed the kingdom's concern over the development at the 11th round of bilateral talks in Beijing in 1996. The Chinese had proposed that the two sides sign an "agreement of friendship" between them. This was signed during the 12th round of talks in Beijing. Relations remained far from normal and tension free.

At the end of November 2001, Bhutan and China held another round of negotiations aimed at resolving the outstanding boundary issues. The extremely mountainous terrain that forms the border between the two countries is not properly marked and hence there have been boundary disputes between the two countries. However, for the last 16 years, the two sides have been engaged in close contact and negotiations to sort out all the outstanding issues.

Chinese vice foreign minister Wang Yi led his country's delegation for the 15th round of negotiations Both the sides expressed their happiness with the progress achieved during the discussions. Bhutanese foreign minister Lyonpo Jigmi Thinley said that the discussions, which had always been held in a friendly and cordial atmosphere, had made considerable progress, facilitated by a "spirit of understanding, accommodation, and cooperation between the two countries. Though there are no formal diplomatic relations between Bhutan and China, contacts between the two countries have been growing steadily through bilateral and multilateral channels.

Bhutan Review 2016 Page 81 of 289 pages

Written by Dr. Denise Youngblood Coleman, Editor in Chief, www.countrywatch.com . See Bibliography for list of research sources.

National Security

External Threats

Bhutan faces no serious external threats from foreign nations. Its relations with India are governed by the 1949 Treaty of Peace and Friendship, and Indiaalso provides over 80 percent of the country's foreign aid. Bhutan also cooperates with Indiain regards to expelling Indian separatists from the country.

China and Bhutan have no formal diplomatic ties, but they have been engaged in border talks in the past.

The presence of over 100,000 Bhutanese refugees in Nepalhas strained relations with the Nepalese government. The government of Bhutan maintains that the refugees, predominately ethnic Nepalese, left by choice in the 1990s, when it began to force ethnic minorities to use Bhutan's national language, Dzongkha, and to adopt the local style of dress, in order to foster greater integration. Bhutanmaintains that in leaving, the refugees renounced their citizenship rights. The refugees maintain they were forced to leave their homeland. Their presence in Nepalhas placed an ongoing burden on the nation's meager resources.

In 2003, representatives of both governments began to categorize the refugees into four groups, based upon a determination of citizenship rights. Repatriation for those who are deemed eligible began in 2004, however, since then, a minority of refugees were classified as being legitimately Bhutanese.

Crime

There is reportedly a very low crime rate in Bhutan.

Insurgencies

Bhutan Review 2016 Page 82 of 289 pages

In recent years, the Bhutanese Government has found itself facing an increased number of insurgencies. Both the United Liberation Front of Assam (ULFA), an insurgent movement dedicated to the liberation of Assam from neighboring India, and the similarly oriented National Democratic Front of Bodoland (NDFB), have used Bhutan as a safe haven in the past. The government has threatened to initiate military action against the groups if they do not voluntarily leave soon.

Terrorism

Violence has seldom fractured the harmony of the tiny mountain kingdom of Bhutan. However, both the ULFA and the NDFB have established a presence there. Both have perpetuated acts of terrorism towards that end, generally targeting India's government and civilian population.

Defense Forces

Military Data

Military Branches:

Royal Bhutan Army (includes Royal Bodyguard and Royal Bhutan Police)

Eligible age to enter service:

18

Mandatory Service Terms:

No conscription

Manpower in general population-fit for military service:

Bhutan Review 2016 Page 83 of 289 pages

males age 18-49: 157,664

females age 18-49: 144,861

Manpower reaching eligible age annually:

males age 18-49: 7,363

females age 18-49: 7,095

Current Capabilities:

Active: N/A

Reserve: N/A

Military Expenditures (in US \$):

N/A

Percent of GDP:

N/A

Bhutan Review 2016 Page 84 of 289 pages

Chapter 3 Economic Overview

Bhutan Review 2016 Page 85 of 289 pages

Economic Overview

Overview

Bhutan's economy is one of the smallest and least developed in the world and is based on agriculture, forestry, and hydroelectricity. The predominately mountainous terrain makes the building of roads and other infrastructure difficult and expensive. Despite this constraint, and the fact that it is devoid of oil and gas reserves, Bhutan has sufficient hydro resources to be a major regional source of electricity. In fact, hydropower project activity has been its major engine for growth in the past decade. In recent years, Bhutan has shown strong economic performance supported by prudent macroeconomic management, sustained donor support, and smooth political transition. In July 2008, Bhutan successfully completed its historic transformation into a constitutional monarchy. During its 9th Five Year Plan (2002-2007), Bhutan achieved many successes, including increased national income, significant poverty reduction, and improvements in several social indicators. Built on these successes, the 10th Five Year Plan (2008-2013) has now embarked on a wide-ranging development agenda, including further poverty reduction through revitalizing industry, enhancing infrastructure, and fostering private sector growth. Given its limited exposure to global financial markets and the concentration of electricity exports to India, the impact of the global crisis on Bhutan's economy was small and limited to the tourism sector.

In April 2011, Bhutan sought the help of the Indian film industry and the government to set up a film studio in its capital of Thimphu. The challenge ahead is to achieve the goals of the 10th Plan while sustaining macroeconomic sustainability. In view of the recent sharp deterioration of the fiscal position, the fiscal policy should be tightening to avoid overheating pressures and ensure debt sustainability. Growth was projected to remain robust at 8 to 9 percent over the remainder of the 10th Five Year Plan, in part driven by the construction of new hydropower projects. The current account deficit was expected to widen as the construction of hydropower projects pick up steam. Pressure on the overall balance of payments, however, was expected to remain manageable as associated loan disbursements from India were also projected to increase. As of May 2012, Bhutan was spending much more on imports than it earned, banks were cracking down on cheap credit after a recent debt-driven spending boom, and youth employment had surged to 9.2 percent as teenagers abandoned farming for urban life, according to Reuters. The number of people living below the poverty line stood at 23 percent. To boost its economy, the government could attract more tourists. However, it is limited by its own "high end, low volume" policy of limiting visitor numbers by only allowing in those who pay \$250 a day in advance. Bhutan welcomed in 2011

Bhutan Review 2016 Page 86 of 289 pages

around 64,000 people, according to figures released by the Tourism Council of Bhutan. Meanwhile, more than 600,000 people visited nearby Nepal in 2010, official Nepali figures indicated.

Bhutan's economy was estimated to have expanded by 8.4 percent for its fiscal year ended June 30, 2013 – slightly below the Asian Development Outlook 2013 projection in April. This was due to a variety of factors including weak hydropower sales, slower tourism growth and ongoing foreign exchange and credit restrictions imposed by the central bank to manage liquidity. Meanwhile, hydropower sales saw a narrower contraction compared to the year prior mainly because there was no capacity added and rainfall was below average. Revenue growth from tourism was strong at an estimated 13.5 percent but was certainly much lower than then 48.4 percent gain a year earlier that reflected the opening of new international and domestic air routes coordinated with a promotion campaign.

Overall, Bhutan's GDP growth was cut in half in fiscal year 2013 compared to fiscal year 2011 due mainly to policy efforts aimed at containing overheating pressures in the form of restrictions on credit for construction and vehicle. The fiscal deficit worsened sharply in fiscal year 2013 thanks to a shortfall in grants. Meanwhile the current account deficit widened largely on hydropower-related imports, as well as on consumption and a housing boom. Growth was projected to recover slightly in fiscal year 2014, driven mainly by a pickup in hydropower-related construction activities and domestic services.

Bhutan's largest export - hydropower to India - could spur sustainable growth in the coming years if Bhutan resolves chronic delays in construction. Bhutan currently taps only 5 percent of its 30,000-megawatt hydropower potential and is behind schedule in building 12 new hydropower dams with a combined capacity of 10,000 megawatts by 2020 in accordance with a deal signed in 2008 with India. The high volume of imported materials to build hydropower plants has expanded Bhutan's trade and current account deficits. However, Bhutan and India in April 2014 agreed to begin four additional hydropower projects, which would generate 2,120 megawatts in total. A declining GDP growth rate in each of the past three years in the absence of new hydropower facilities has constrained Bhutan's ability to institute economic reforms. Meanwhile, Bhutan signed a pact in December 2014 to expand duty-free trade with Bangladesh, the only trade partner with which Bhutan enjoys a surplus.

Overall, Bhutan's economy expanded in fiscal year 2014, which ended 30 June 2014, up slightly from a year earlier but still below the long-term growth rate of nearly 8 percent. The boost came from growth in industry and construction, mainly in hydropower, which makes up about a third of economic activity. Sales of cement, one of the country's few industries, recovered from a contraction the prior year, reflecting stronger performance in construction as well as manufacturing. The value of electricity output grew on higher power tariffs and despite hydropower production falling slightly. The economic recovery was set to continue, and the Asian Development Bank was

Bhutan Review 2016 Page 87 of 289 pages

projecting high growth rates over the next two years. The industry sector, comprising about fourtenths of the gross domestic product, was expected to continue to drive the economy, bolstered by the construction of new hydropower including the Nikachhu and Kholongchhu plants and increased electricity output from the new Dagachhu plant, which opened in early 2015.

Bhutan's largest export - hydropower to India - could spur sustainable growth in the coming years if Bhutan resolves chronic delays in construction. Bhutan currently taps only 5 percent of its 30,000-megawatt hydropower potential and is behind schedule in building 12 new hydropower dams with a combined capacity of 10,000 megawatts by 2020 in accordance with a deal signed in 2008 with India. The high volume of imported materials to build hydropower plants has expanded Bhutan's trade and current account deficits. However, Bhutan and India in April 2014 agreed to begin four additional hydropower projects, which would generate 2,120 megawatts in total. A declining GDP growth rate in each of the past three years in the absence of new hydropower facilities has constrained Bhutan's ability to institute economic reforms. Bhutan signed a pact in December 2014 to expand duty-free trade with Bangladesh, the only trade partner with which Bhutan enjoys a surplus.

Economic Performance

Bhutan's economic growth has been robust in the past decade due to public investment in infrastructure, private investment in housing, and continued work on hydropower projects. Following the start of commercial production of the Tala hydropower project, real GDP growth accelerated from 2006 to 2008 before moderating in 2009, reflecting the impact of the global crisis on tourism. It remained strong from 2010 to 2012.

Bhutan's fiscal policy has been anchored by keeping current spending below domestic revenue. Despite the uncertainty arising from foreign aid flows, the government was able to keep the overall fiscal deficit relatively low before increasingly sharply in 2009 and 2010 due to increases in current spending, including spending on wages and on goods and services.

According to CountryWatch estimated calculations for 2014:

Real GDP growth rate was: 8.1 percent Inflation was measured at: 5.6 percent

The fiscal deficit/surplus as percent of GDP (%) was: -1.2 percent

Updated in 2015

*Please note that the figures in our Economic Performance section are estimates or forecasts based on IMF-based data that are formulated using CountryWatch models of analysis.

Bhutan Review 2016 Page 88 of 289 pages

Supplementary Sources: Yahoo! India News, Reuters, Asian Development Bank and The International Monetary Fund

Nominal GDP and Components

Nominal GDP and Components								
	2011	2012	2013	2014	2015			
Nominal GDP (LCU billions)	84.950	97.453	104.378	116.024	140.909			
Nominal GDP Growth Rate (%)	17.177	14.718	7.106	11.144	21.464			
Consumption (LCU billions)	35.307	36.275	59.759	72.216	74.153			
Government Expenditure (LCU billions)	17.048	18.691	18.274	22.472	23.075			
Gross Capital Formation (LCU billions)	57.469	66.181	49.334	53.320	78.788			
Exports of Goods & Services (LCU billions)	35.004	37.739	42.636	45.274	49.234			
Imports of Goods & Services (LCU billions)	59.878	61.433	65.625	77.273	84.341			

Bhutan Review 2016 Page 89 of 289 pages

Population and GDP Per Capita

Population and GDP Per Capita 2011 2012 2013 2014 2015 Population, total 0.7290 0.7540 0.7660 0.7420 0.7790 (million) Population 1.674 1.783 1.592 1.697 1.617 growth (%) Nominal GDP per Capita 116,529.49 131,338.27 138,432.36 151,467.36 180,884.47 (LCU 1000s)

Bhutan Review 2016 Page 90 of 289 pages

Real GDP and Inflation

Real GDP and Inflation					
	2011	2012	2013	2014	2015
Real Gross Domestic Product (LCU billions 2005 base)	50.817	53.004	52.032	53.567	60.590
Real GDP Growth Rate (%)	8.900	4.304	-1.8345	2.950	13.110
GDP Deflator (2005=100.0)	167.167	183.858	200.603	216.596	232.563
Inflation, GDP Deflator (%)	7.600	9.985	9.108	7.972	7.372

Bhutan Review 2016 Page 91 of 289 pages

Government Spending and Taxation

Government Spending and Taxation								
	2011	2012	2013	2014	2015			
Government Fiscal Budget (billions)	29.842	33.806	34.900	37.773	35.406			
Fiscal Budget Growth Rate (percentage)	-0.1572	13.283	3.236	8.232	-6.2664			
National Tax Rate Net of Transfers (%)	33.163	33.499	29.378	28.564	22.774			
Government Revenues Net of Transfers (LCU billions)	28.172	32.646	30.664	33.141	32.091			
Government Surplus(-) Deficit(+) (LCU billions)	-1.6700	-1.1600	-4.2360	-4.6320	-3.3150			
Government Surplus(+) Deficit(-) (%GDP)	-1.9659	-1.1903	-4.0583	-3.9923	-2.3526			

Bhutan Review 2016 Page 92 of 289 pages

Money Supply, Interest Rates and Unemployment

Money Supply, Interest Rates and Unemployment 2011 2012 2013 2015 2014 Money and Quasi-Money (M2) (LCU 54.243 57.384 59.534 74.962 91.040 billions) Money Supply Growth Rate (%) 4.389 5.790 3.747 25.915 21.448 Lending Interest Rate (%) 14.000 14.000 14.000 14.150 15.771 Unemployment Rate (%) 3.200 3.100 3.200 3.200 3.200

Bhutan Review 2016 Page 93 of 289 pages

Foreign Trade and the Exchange Rate

Foreign Trade and the Exchange Rate										
	2011	2012	2013	2014	2015					
Official Exchange Rate (LCU/\$US)	48.626	52.849	53.970	58.509	63.789					
Trade Balance NIPA (\$US billions)	-0.5115	-0.4483	-0.4260	-0.5469	-0.5504					
Trade Balance % of GDP	-29.2808	-24.3133	-22.0248	-27.5796	-24.9146					
Total Foreign Exchange Reserves (\$US billions)	0.7896	0.9547	0.9913	1.245	1.258					

Bhutan Review 2016 Page 94 of 289 pages

Data in US Dollars

Data in US Dollars					
	2011	2012	2013	2014	2015
Nominal GDP (\$US billions)	1.747	1.844	1.934	1.983	2.209
Exports (\$US billions)	0.7199	0.7141	0.7900	0.7738	0.7718
Imports (\$US billions)	1.231	1.162	1.216	1.321	1.322

Bhutan Review 2016 Page 95 of 289 pages

Energy Consumption and Production Standard Units

Energy Consumption and Production Standard Units								
	2011	2012	2013	2014	2015			
Petroleum Consumption (TBPD)	1.996	1.991	2.000	2.074	2.178			
Petroleum Production (TBPD)	0.0000	0.0000	0.0000	0.0000	0.0000			
Petroleum Net Exports (TBPD)	-1.9960	-1.9905	-2.0000	-2.0737	-2.1779			
Natural Gas Consumption (bcf)	0.0000	0.0000	0.0000	0.0000	0.0000			
Natural Gas Production (bcf)	0.0000	0.0000	0.0000	0.0000	0.0000			
Natural Gas Net Exports (bcf)	0.0000	0.0000	0.0000	0.0000	0.0000			
Coal Consumption (1000s st)	36.376	36.376	37.169	37.464	39.235			
Coal Production (1000s st)	95.151	91.385	93.880	91.595	88.215			
Coal Net Exports (1000s st)	58.775	55.009	56.712	54.131	48.980			
Nuclear Production (bil kwh)	0.0000	0.0000	0.0000	0.0000	0.0000			
Hydroelectric Production (bil kwh)	6.975	6.745	8.149	7.405	7.554			
Renewables Production (bil kwh)	0.0000	0.0000	0.0000	0.0000	0.0000			

Bhutan Review 2016 Page 96 of 289 pages

Energy Consumption and Production QUADS

Energy Consumption and Production QUADS								
	2011	2012	2013	2014	2015			
Petroleum Consumption (Quads)	0.0043	0.0042	0.0043	0.0044	0.0046			
Petroleum Production (Quads)	0.0000	0.0000	0.0000	0.0000	0.0000			
Petroleum Net Exports (Quads)	-0.0043	-0.0042	-0.0043	-0.0044	-0.0046			
Natural Gas Consumption (Quads)	0.0000	0.0000	0.0000	0.0000	0.0000			
Natural Gas Production (Quads)	0.0000	0.0000	0.0000	0.0000	0.0000			
Natural Gas Net Exports (Quads)	0.0000	0.0000	0.0000	0.0000	0.0000			
Coal Consumption (Quads)	0.0007	0.0007	0.0007	0.0007	0.0008			
Coal Production (Quads)	0.0019	0.0019	0.0020	0.0018	0.0016			
Coal Net Exports (Quads)	0.0012	0.0012	0.0012	0.0011	0.0008			
Nuclear Production (Quads)	0.0000	0.0000	0.0000	0.0000	0.0000			
Hydroelectric Production (Quads)	0.0698	0.0674	0.0815	0.0740	0.0755			
Renewables Production (Quads)	0.0000	0.0000	0.0000	0.0000	0.0000			

Bhutan Review 2016 Page 97 of 289 pages

World Energy Price Summary

World Energy Price Summary					
	2011	2012	2013	2014	2015
Petroleum-WTI (\$/bbl)	95.054	94.159	97.943	93.112	48.709
Natural Gas-Henry Hub (\$/mmbtu)	3.999	2.752	3.729	4.369	2.614
Coal Thermal-Australian (\$/mt)	121.448	96.364	84.562	70.130	57.511

Bhutan Review 2016 Page 98 of 289 pages

CO2 Emissions

CO2 Emissions					
	2011	2012	2013	2014	2015
Petroleum Based (mm mt C)	0.0952	0.0950	0.0954	0.0989	0.1039
Natural Gas Based (mm mt C)	0.0000	0.0000	0.0000	0.0000	0.0000
Coal Based (mm mt C)	0.0208	0.0208	0.0213	0.0215	0.0225
Total CO2 Emissions (mm mt C)	0.1161	0.1158	0.1167	0.1204	0.1264

Bhutan Review 2016 Page 99 of 289 pages

Agriculture Consumption and Production

Agriculture Consumption and Production								
	2011	2012	2013	2014	2015			
Corn Total Consumption (1000 metric tons)	89.225	75.274	67.118	75.953	77.705			
Corn Production (1000 metric tons)	79.678	72.802	64.604	75.508	70.374			
Corn Net Exports (1000 metric tons)	-9.5470	-2.4721	-2.5143	-0.4454	-7.3312			
Soybeans Total Consumption (1000 metric tons)	0.8390	0.2940	0.0690	0.0699	0.0694			
Soybeans Production (1000 metric tons)	0.8271	0.2935	0.0686	0.0689	0.0613			
Soybeans Net Exports (1000 metric tons)	-0.0119	-0.0005	-0.0004	-0.0011	-0.0081			
Rice Total Consumption (1000 metric tons)	78.730	78.337	78.730	76.621	76.454			
Rice Production (1000 metric tons)	78.783	78.013	78.695	76.591	73.129			
Rice Net Exports (1000 metric tons)	0.0530	-0.3247	-0.0345	-0.0301	-3.3242			
Coffee Total Consumption (metric tons)	10.000	7.000	7.000	6.215	6.492			

Bhutan Review 2016 Page 100 of 289 pages

	2011	2012	2013	2014	2015
Coffee Production (metric tons)	0.0000	0.0000	0.0000	0.0000	0.0000
Coffee Net Exports (metric tons)	-10.0000	-7.0000	-7.0000	-6.2153	-6.4918
Cocoa Beans Total Consumption (metric tons)	0.0000	0.0000	0.0000	0.0000	0.0000
Cocoa Beans Production (metric tons)	0.0000	0.0000	0.0000	0.0000	0.0000
Cocoa Beans Net Exports (metric tons)	0.0000	0.0000	0.0000	0.0000	0.0000
Wheat Total Consumption (1000 metric tons)	22.340	10.030	10.302	11.510	10.716
Wheat Production (1000 metric tons)	6.252	5.065	5.302	5.189	4.319
Wheat Net Exports (1000 metric tons)	-16.0879	-4.9653	-5.0003	-6.3211	-6.3973

Bhutan Review 2016 Page 101 of 289 pages

World Agriculture Pricing Summary

World Agriculture Pricing Summary 2011 2012 2013 2014 2015 **Corn Pricing Summary** 291.684 298.417 259.389 192.881 169.750 (\$/metric ton) Soybeans Pricing Summary 540.667 591.417 538.417 491.771 390.417 (\$/metric ton) Rice Pricing Summary (\$/metric 458.558 525.071 473.989 425.148 386.033 ton) Coffee Pricing Summary 5.976 4.111 3.076 4.424 3.526 (\$/kilogram) Cocoa Beans Pricing Summary 2.980 2.392 2.439 3.062 3.135 (\$/kilogram) Wheat Pricing Summary 316.264 313.242 312.248 284.895 203.177 (\$/metric ton)

Bhutan Review 2016 Page 102 of 289 pages

Metals Consumption and Production

Metals Consumption and Production										
	2011	2012	2013	2014	2015					
Copper Consumption (1000 mt)	1.214	1.214	1.214	1.214	1.214					
Copper Production (1000 mt)	0.0000	0.0000	0.0000	0.0000	0.0000					
Copper Net Exports (1000 mt)	-1.2140	-1.2140	-1.2140	-1.2140	-1.2140					
Zinc Consumption (1000 mt)	0.3920	0.3920	0.3920	0.3920	0.3920					
Zinc Production (1000 mt)	0.0000	0.0000	0.0000	0.0000	0.0000					
Zinc Exports (1000 mt)	-0.3920	-0.3920	-0.3920	-0.3920	-0.3920					
Lead Consumption (1000 mt)	19.487	35.370	27.428	27.428	27.428					
Lead Production (1000 mt)	0.0000	0.0000	0.0000	0.0000	0.0000					
Lead Exports (1000 mt)	-19.4870	-35.3700	-27.4285	-27.4285	-27.4285					
Tin Consumption (1000 mt)	3.250	12.100	7.675	7.675	7.675					
Tin Production (1000 mt)	0.0000	0.0000	0.0000	0.0000	0.0000					
Tin Exports (1000 mt)	-3.2500	-12.1000	-7.6750	-7.6750	-7.6750					

Bhutan Review 2016 Page 103 of 289 pages

	2011	2012	2013	2014	2015
Nickel Consumption (1000 mt)	0.0000	0.0000	0.0000	0.0000	0.0000
Nickel Production (1000 mt)	0.0000	0.0000	0.0000	0.0000	0.0000
Nickel Exports (1000 mt)	0.0000	0.0000	0.0000	0.0000	0.0000
Gold Consumption (kg)	2.600	2.600	2.600	2.600	2.600
Gold Production (kg)	0.1069	0.1102	0.1138	0.1215	0.1172
Gold Exports (kg)	-2.4931	-2.4898	-2.4862	-2.4785	-2.4828
Silver Consumption (mt)	57.600	57.600	57.600	57.600	57.600
Silver Production (mt)	5.235	5.493	5.582	5.777	5.309
Silver Exports (mt)	-52.3646	-52.1067	-52.0178	-51.8232	-52.2910

Bhutan Review 2016 Page 104 of 289 pages

World Metals Pricing Summary

World Metals Pricing Summary 2012 2013 2014 2011 2015 Copper (\$/mt) 8,828.19 7,962.35 6,863.40 7,332.10 5,510.46 Zinc (\$/mt) 1,950.41 1,910.26 1,931.68 2,193.90 2,160.97 Tin (\$/mt) 26,053.68 21,898.87 16,066.63 21,125.99 22,282.80 2,095.46 Lead (\$/mt) 2,400.81 2,064.64 2,139.79 1,787.82 Nickel (\$/mt) 22,910.36 17,547.55 15,031.80 16,893.38 11,862.64 Gold (\$/oz) 1,569.21 1,669.52 1,411.46 1,265.58 1,160.66 Silver (\$/oz) 35.224 31.137 23.850 19.071 15.721

Bhutan Review 2016 Page 105 of 289 pages

Economic Performance Index

Economic Performance Index

The Economic Performance rankings are calculated by CountryWatch's editorial team, and are based on criteria including sustained economic growth, monetary stability, current account deficits, budget surplus, unemployment and structural imbalances. Scores are assessed from 0 to 100 using this aforementioned criteria as well as CountryWatch's proprietary economic research data and models.

	Bank stability risk	Monetary/ Currency stability	Government Finances	Empl./ Unempl.	Econ.GNP growth or decline/ forecast
	0 - 100	0 - 100	0 - 100	0 - 100	%
North Americas					
Canada	92	69	35	38	3.14%
United States	94	76	4	29	3.01%
Western Europe					
Austria	90	27	30	63	1.33%
Belgium	88	27	19	23	1.15%
Cyprus	81	91	16	80	-0.69%
Denmark	97	70	45	78	1.20%
Finland	89	27	41	33	1.25%

Bhutan Review 2016 Page 106 of 289 pages

France	87	27	18	27	1.52%
Germany	86	27	22	21	1.25%
Greece	79	27	5	24	-2.00%
Iceland	90	17	2	34	-3.04%
Italy	85	27	37	24	0.84%
Ireland	92	27	11	10	-1.55%
Luxembourg	99	27	28	66	2.08%
Malta	77	27	41	51	0.54%
Netherlands	91	27	26	74	1.30%
Norway	98	44	10	76	1.08%
Portugal	77	27	13	20	0.29%
Spain	83	27	9	3	-0.41%
Sweden	94	72	54	32	1.23%
Switzerland	97	86	55	77	1.53%
United Kingdom	85	12	9	37	1.34%
Central and Eastern Europe					
Albania	44	60	33	6	2.30%
Armenia	45	59	49	30	1.80%

Bhutan Review 2016 Page 107 of 289 pages

Azerbaijan	56	4	84	99	2.68%
Belarus	59	21	83	98	2.41%
Bosnia and Herzegovina	34	68	69	N/A	0.50%
Bulgaria	58	75	88	49	0.20%
Croatia	69	68	94	9	0.18%
Czech Republic	80	89	29	70	1.67%
Estonia	72	90	66	92	0.80%
Georgia	36	60	53	56	2.00%
Hungary	70	66	26	54	-0.16%
Latvia	67	100	65	44	-3.97%
Lithuania	65	91	87	79	-1.65%
Macedonia (FYR)	53	69	56	2	2.03%
Moldova	23	36	81	67	2.50%
Poland	74	74	38	12	2.72%
Romania	62	56	70	62	0.75%
Russia	73	18	90	8	4.00%
Serbia	48	49	52	5	1.97%

Bhutan Review 2016 Page 108 of 289 pages

Montenegro	39	27	73	1	-1.70%
Slovak Republic	80	62	30	14	4.06%
Slovenia	81	27	36	65	1.12%
Ukraine	41	11	57	N/A	3.68%
Africa					
Algeria	57	18	96	7	4.55%
Angola	49	1	97	N/A	7.05%
Benin	19	91	20	N/A	3.22%
Botswana	68	58	76	N/A	6.33%
Burkina Faso	16	91	13	N/A	4.41%
Burundi	2	91	6	N/A	3.85%
Cameroon	26	91	91	N/A	2.58%
Cape Verde	52	87	4	N/A	4.96%
Central African Republic	9	91	32	N/A	3.18%
Chad	22	91	89	N/A	4.42%
Congo	52	87	87	N/A	12.13%
Côte d'Ivoire	25	91	82	28	2.98%
Dem. Republic					

Bhutan Review 2016 Page 109 of 289 pages

Congo	4	91	47	N/A	5.44%
Djibouti	31	76	50	N/A	4.47%
Egypt	37	20	24	69	5.01%
Equatorial Guinea	82	91	85	N/A	0.94%
Eritrea	1	3	1	18	1.81%
Ethiopia	6	45	8	N/A	6.96%
Gabon	64	91	96	N/A	5.36%
Gambia	8	48	86	N/A	4.82%
Ghana	9	11	69	N/A	4.50%
Guinea	10	7	91	N/A	3.03%
Guinea-Bissau	5	91	46	N/A	3.47%
Kenya	20	41	59	N/A	4.11%
Lesotho	13	40	12	N/A	2.98%
Liberia	12	73	74	N/A	5.92%
Libya	73	2	94	N/A	5.22%
Madagascar	4	22	24	N/A	-1.02%
Malawi	7	25	55	N/A	5.96%
Mali	20	91	82	N/A	5.12%

Bhutan Review 2016 Page 110 of 289 pages

Mauritania	15	13	93	N/A	4.58%
Mauritius	65	52	56	55	4.10%
Morocco	37	72	48	26	3.23%
Mozambique	12	23	71	N/A	6.45%
Namibia	40	39	62	N/A	1.70%
Niger	10	91	21	N/A	4.41%
Nigeria	30	6	61	N/A	6.98%
Rwanda	21	40	68	N/A	5.39%
Sao Tome & Principe	1	61	100	N/A	3.40%
Senegal	24	91	63	N/A	3.44%
Seychelles	60	67	97	N/A	4.01%
Sierra Leone	5	10	39	N/A	4.77%
Somalia	2	38	59	N/A	3.19%
South Africa	61	37	70	N/A	2.59%
Sudan	16	5	73	N/A	5.52%
Swaziland	32	44	79	N/A	1.09%
Tanzania	15	45	32	N/A	6.17%
Togo	8	91	92	N/A	2.56%

Bhutan Review 2016 Page 111 of 289 pages

Tunisia	50	61	44	39	4.00%
Uganda	11	17	54	N/A	5.59%
Zambia	29	20	49	N/A	5.84%
Zimbabwe	0	8	16	N/A	2.24%
South and Central America					
Argentina	66	3	80	36	3.50%
Belize	47	76	80	N/A	1.00%
Bolivia	32	51	61	81	3.99%
Brazil	71	47	78	11	5.50%
Chile	78	25	92	73	4.72%
Columbia	47	52	34	47	2.25%
Costa Rica	60	42	39	57	3.45%
Ecuador	43	76	75	64	2.51%
El Salvador	35	76	67	N/A	1.04%
Guatemala	46	59	58	N/A	2.52%
Honduras	27	47	58	N/A	2.00%
Mexico	69	42	52	61	4.07%
Nicaragua	23	49	42	N/A	1.75%

Bhutan Review 2016 Page 112 of 289 pages

Panama	66	76	72	45	5.00%
Paraguay	35	46	66	16	5.27%
Peru	59	66	75	22	6.33%
Suriname	58	26	81	59	4.02%
Uruguay	70	26	27	N/A	5.71%
Venezuela	55	1	28	13	-2.63%
Caribbean					
Antigua & Barbuda	72	76	15	N/A	-2.01%
Bahamas	74	76	45	87	-0.50%
Barbados	67	76	33	15	-0.50%
Bermuda	N/A	N/A	N/A	N/A	N/A
Cuba	45	76	18	95	0.25%
Dominica	53	76	65	N/A	1.40%
Dominican Republic	54	39	43	4	3.50%
Grenada	63	76	48	N/A	0.80%
Guyana	28	56	17	N/A	4.36%
Haiti	11	27	89	N/A	-8.50%
Jamaica	42	9	85	19	-0.28%

Bhutan Review 2016 Page 113 of 289 pages

St Lucia	55	76	67	N/A	1.14%
St Vincent & Grenadines	49	76	95	N/A	0.50%
Trinidad & Tobago	82	37	77	72	2.13%
Middle East					
Bahrain	84	76	62	91	3.48%
Iran	51	19	40	58	3.01%
Iraq	48	9	8	N/A	7.27%
Israel	87	62	12	48	3.20%
Jordan	41	51	3	N/A	4.10%
Kuwait	96	4	99	N/A	3.10%
Lebanon	63	54	2	N/A	6.00%
Oman	76	16	88	N/A	4.71%
Qatar	99	16	83	N/A	18.54%
Saudi Arabia	76	8	98	N/A	3.70%
Syria	61	24	40	N/A	5.00%
Turkey	75	23	27	60	5.20%
United Arab Emirates	96	24	98	94	1.29%

Bhutan Review 2016 Page 114 of 289 pages

28	2	78	N/A	7.78%
17	70	74	N/A	8.64%
13	43	25	N/A	5.38%
24	55	5	N/A	6.85%
78	19	99	75	0.48%
18	67	42	N/A	4.77%
54	90	19	68	11.03%
89	76	14	82	5.02%
31	38	34	35	8.78%
42	46	37	31	6.00%
88	89	6	71	1.90%
62	13	76	42	2.40%
18	65	23	N/A	1.50%
83	63	22	85	4.44%
24	15	84	88	4.61%
17	54	7	N/A	7.22%
91	76	14	82	3.00%
	17 13 24 78 18 54 89 31 42 88 62 18 83 24 17	17 70 13 43 24 55 78 19 18 67 54 90 89 76 31 38 42 46 88 89 62 13 18 65 83 63 24 15 17 54	17 70 74 13 43 25 24 55 5 78 19 99 18 67 42 54 90 19 89 76 14 31 38 34 42 46 37 88 89 6 62 13 76 18 65 23 83 63 22 24 15 84 17 54 7	17 70 74 N/A 13 43 25 N/A 24 55 5 N/A 78 19 99 75 18 67 42 N/A 54 90 19 68 89 76 14 82 31 38 34 35 42 46 37 31 88 89 6 71 62 13 76 42 18 65 23 N/A 83 63 22 85 24 15 84 88 17 54 7 N/A

Bhutan Review 2016 Page 115 of 289 pages

Malaysia	68	65	44	90	4.72%
Maldives	44	55	17	N/A	3.45%
Mongolia	33	5	77	93	7.22%
Myanmar	3	41	72	N/A	5.26%
Nepal	3	14	25	N/A	2.97%
Pakistan	19	15	31	41	3.00%
Papua New Guinea	75	50	11	N/A	7.96%
Philippines	30	48	53	43	3.63%
Singapore	93	75	63	40	5.68%
Sri Lanka	38	22	10	N/A	5.50%
Taiwan	84	88	35	89	6.50%
Tajikistan	6	6	60	97	4.00%
Thailand	56	64	90	96	5.46%
Turkmenistan	51	53	68	N/A	12.00%
Uzbekistan	40	10	60	100	8.00%
Vietnam	25	12	20	N/A	6.04%
Pacific					
Australia	96	63	31	46	2.96%

Bhutan Review 2016 Page 116 of 289 pages

Fiji	46	53	3	N/A	2.06%
Marshall Islands	27	76	46	N/A	1.08%
Micronesia (Fed. States)	N/A	N/A	N/A	N/A	N/A
New Caledonia	96	73	51	52	2.00%
New Zealand	98	73	51	52	2.00%
Samoa	34	88	64	N/A	-2.77%
Solomon Islands	14	71	1	N/A	3.36%
Tonga	26	57	38	N/A	0.60%
Vanuatu	33	58	47	N/A	3.80%

Source:

CountryWatch Inc. www.countrywatch.com

<u>Updated</u>:

This material was produced in 2010; it is subject to updating in 2012.

Bhutan Review 2016 Page 117 of 289 pages

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Chapter 4

Investment Overview

Bhutan Review 2016 Page 118 of 289 pages

Foreign Investment Climate

Background

The economy, one of the world's smallest and least developed, is based on agriculture and forestry, which provide the main livelihood for more than 60% of the population. Agriculture consists largely of subsistence farming and animal husbandry. Rugged mountains dominate the terrain and make the building of roads and other infrastructure difficult and expensive. The economy is closely aligned with India's through strong trade and monetary links and dependence on India's financial assistance. The industrial sector is technologically backward, with most production of the cottage industry type. Most development projects, such as road construction, rely on Indian migrant labor. Model education, social, and environment programs are underway with support from multilateral development organizations. Each economic program takes into account the government's desire to protect the country's environment and cultural traditions. For example, the government, in its cautious expansion of the tourist sector, encourages visits by upscale, environmentally conscientious tourists. Complicated controls and uncertain policies in areas such as industrial licensing, trade, labor, and finance continue to hamper foreign investment. Hydropower exports to India have boosted Bhutan's overall growth. New hydropower projects will be the driving force behind Bhutan's ability to create employment and sustain growth in the coming years.

Foreign Investment Assessment

Despite recent privatizations, Bhutan's government remains highly sensitive to protecting the country's cultural heritage, as well as its environment, thus presenting a host of obstacles for would-be foreign investors.

Industries

Cement, wood products, processed fruits, alcoholic beverages, calcium carbide

Import Commodities

Bhutan Review 2016 Page 119 of 289 pages

Fuel and lubricants, grain, machinery and parts, vehicles, fabrics, rice

Import Partners

Japan 36.6%, Austria 14.2%, Sweden 8.3%, China 7.5%, Thailand 6%, Bangladesh 6%, Germany 5.5%, Italy 4%

Export Commodities

Electricity (to India), cardamom, gypsum, timber, handicrafts, cement, fruit, precious stones, spices

Export Partners

Bangladesh 60.5%, US 11.7%, Malaysia 5.7%

Ports and Harbors

None

Telephone System

Domestic telephone service is very poor with few telephones in use; country code: 975

Internet Users

15,000 in recent years

Judicial System

Bhutan's legal system is generally based on Indian law and English common law.

Labor Force

Bhutan Review 2016 Page 120 of 289 pages

Agriculture 93%, industry and commerce 2%, services 5%

Corruption Perception Ranking

As reported by Transparency International, Bhutan is ranked as one of the less corrupt countries. See full listing elsewhere in this Country Review.

Cultural Considerations

Bhutan's culture has been heavily influenced by its main religion, Buddhism. Visitors should exercise the utmost care to adhere to local rules of etiquette. Wearing shoes indoors and taking one's picture without permission are definite violations of those rules. Also, the government takes the preservation of the country's cultural heritage and environment very seriously.

Country Website (s)

www.kingdomofbhutan.com

Foreign Investment Index

Foreign Investment Index

The Foreign Investment Index is a proprietary index measuring attractiveness to international investment flows. The Foreign Investment Index is calculated using an established methodology by CountryWatch's Editor-in-Chief and is based on a given country's economic stability (sustained economic growth, monetary stability, current account deficits, budget surplus), economic risk (risk of non-servicing of payments for goods or services, loans and trade-related finance, risk of sovereign default), business and investment climate (property rights, labor force and laws, regulatory transparency, openness to foreign investment, market conditions, and stability of government). Scores are assigned from 0-10 using the aforementioned criteria. A score of 0 marks the lowest level of foreign investment viability, while a score of 10 marks the highest level of foreign investment viability, according to this proprietary index.

Bhutan Review 2016 Page 121 of 289 pages

Country	Assessment
Afghanistan	2
Albania	4.5
Algeria	6
Andorra	9
Angola	4.5-5
Antigua	8.5
Argentina	5
Armenia	5
Australia	9.5
Austria	9-9.5
Azerbaijan	5
Bahamas	9
Bahrain	7.5
Bangladesh	4.5
Barbados	9
Belarus	4

Bhutan Review 2016 Page 122 of 289 pages

Belgium	9
Belize	7.5
Benin	5.5
Bhutan	4.5
Bolivia	4.5
Bosnia-Herzegovina	5
Botswana	7.5-8
Brazil	8
Brunei	7
Bulgaria	5.5
Burkina Faso	4
Burma (Myanmar)	4.5
Burundi	4
Cambodia	4.5
Cameroon	5
Canada	9.5
Cape Verde	6
Central African Republic	3

Bhutan Review 2016 Page 123 of 289 pages

Chad	4
Chile	9
China	7.5
China: Hong Kong	8.5
China: Taiwan	8.5
Colombia	7
Comoros	4
Congo DRC	4
Congo RC	5
Costa Rica	8
Cote d'Ivoire	4.5
Croatia	7
Cuba	4.5
Cyprus	7
Czech Republic	8.5
Denmark	9.5
Djibouti	4.5
Dominica	6

Bhutan Review 2016 Page 124 of 289 pages

Dominican Republic	6.5
East Timor	4.5
Ecuador	5.5
Egypt	4.5-5
El Salvador	6
Equatorial Guinea	4.5
Eritrea	3.5
Estonia	8
Ethiopia	4.5
Fiji	5
Finland	9
Former Yugoslav Rep. of Macedonia	5
France	9-9.5
Gabon	5.5
Gambia	5
Georgia	5
Germany	9-9.5
Ghana	5.5

Bhutan Review 2016 Page 125 of 289 pages

Greece	5
Grenada	7.5
Guatemala	5.5
Guinea	3.5
Guinea-Bissau	3.5
Guyana	4.5
Haiti	4
Holy See (Vatican)	n/a
Hong Kong (China)	8.5
Honduras	5.5
Hungary	8
Iceland	8-8.5
India	8
Indonesia	5.5
Iran	4
Iraq	3
Ireland	8
Israel	8.5

Bhutan Review 2016 Page 126 of 289 pages

Italy	8
Jamaica	5.5
Japan	9.5
Jordan	6
Kazakhstan	6
Kenya	5
Kiribati	5.5
Korea, North	1
Korea, South	9
Kosovo	4.5
Kuwait	8.5
Kyrgyzstan	4.5
Laos	4
Latvia	7
Lebanon	5
Lesotho	5.5
Liberia	3.5
Libya	3

Bhutan Review 2016 Page 127 of 289 pages

Liechtenstein	9
Lithuania	7.5
Luxembourg	9-9.5
Madagascar	4.5
Malawi	4.5
Malaysia	8.5
Maldives	6.5
Mali	5
Malta	9
Marshall Islands	5
Mauritania	4.5
Mauritius	7.5-8
Mexico	6.5-7
Micronesia	5
Moldova	4.5-5
Monaco	9
Mongolia	5
Montenegro	5.5

Bhutan Review 2016 Page 128 of 289 pages

Morocco	7.5
Mozambique	5
Namibia	7.5
Nauru	4.5
Nepal	4
Netherlands	9-9.5
New Zealand	9.5
Nicaragua	5
Niger	4.5
Nigeria	4.5
Norway	9-9.5
Oman	8
Pakistan	4
Palau	4.5-5
Panama	7
Papua New Guinea	5
Paraguay	6
Peru	6

Bhutan Review 2016 Page 129 of 289 pages

Philippines	6
Poland	8
Portugal	7.5-8
Qatar	9
Romania	6-6.5
Russia	6
Rwanda	4
Saint Kitts and Nevis	8
Saint Lucia	8
Saint Vincent and Grenadines	7
Samoa	7
San Marino	8.5
Sao Tome and Principe	4.5-5
Saudi Arabia	7
Senegal	6
Serbia	6
Seychelles	5
Sierra Leone	4

Bhutan Review 2016 Page 130 of 289 pages

Singapore	9.5
Slovak Republic (Slovakia)	8.5
Slovenia	8.5-9
Solomon Islands	5
Somalia	2
South Africa	8
Spain	7.5-8
Sri Lanka	5.5
Sudan	4
Suriname	5
Swaziland	4.5
Sweden	9.5
Switzerland	9.5
Syria	2.5
Tajikistan	4
Taiwan (China)	8.5
Tanzania	5
Thailand	7.5-8

Bhutan Review 2016 Page 131 of 289 pages

Togo	4.5-5
Tonga	5.5-6
Trinidad and Tobago	8-8.5
Tunisia	6
Turkey	6.5-7
Turkmenistan	4
Tuvalu	7
Uganda	5
Ukraine	4.5-5
United Arab Emirates	8.5
United Kingdom	9
United States	9
Uruguay	6.5-7
Uzbekistan	4
Vanuatu	6
Venezuela	5
Vietnam	5.5
Yemen	3

Bhutan Review 2016 Page 132 of 289 pages

Zambia	4.5-5
Zimbabwe	3.5

Editor's Note:

As of 2015, the global economic crisis (emerging in 2008) had affected many countries across the world, resulting in changes to their rankings. Among those countries affected were top tier economies, such as the <u>United Kingdom</u>, <u>Iceland</u>, <u>Switzerland</u> and <u>Austria</u>. However, in all these cases, their rankings have moved back upward in the last couple of years as anxieties have eased. Other top tier countries, such as <u>Spain</u>, <u>Portugal</u>, <u>Ireland</u>, and <u>Italy</u>, suffered some effects due to debt woes and the concomitant effect on the euro zone. Greece, another euro zone nation, was also downgraded due to its sovereign debt crisis; however, Greece's position on the precipice of default incurred a sharper downgrade than the other four euro zone countries mentioned above. Cyprus' exposure to Greek bank yielded a downgrade in its case. Slovenia and <u>Latvia</u> have been slightly downgraded due to a mix of economic and political concerns but could easily be upgraded in a future assessment, should these concerns abate. Meanwhile, the crisis in eastern <u>Ukraine</u> fueled downgrades in that country and neighboring <u>Russia</u>.

Despite the "trifecta of tragedy" in <u>Japan</u> in 2011 -- the earthquake, the ensuing tsunami, and the resulting nuclear crisis -- and the appreciable destabilization of the economic and political terrain therein, this country has only slightly been downgraded. Japan's challenges have been assessed to be transient, the government remains accountable, and there is little risk of default. Both <u>India</u> and China retain their rankings; <u>India</u> holds a slightly higher ranking than <u>China</u> due to its record of democratic representation and accountability.

There were shifts in opposite directions for Mali and Nigeria versus the Central African Republic, Burkina Faso, and Burundi. Mali was slightly upgraded due to its efforts to return to constitutional order following the 2012 coup and to neutralize the threat of separatists and Islamists. Likewise, a new government in Nigeria generated a slight upgrade as the country attempts to confront corruption, crime, and terrorism. But the Central African Republic was downgraded due to the takeover of the government by Seleka rebels and the continued decline into lawlessness in that country. Likewise, the attempts by the leaders of Burundi and Burkina Faso to hold onto power by by-passing the constitution raised eybrows and resulted in downgrades.

Political unrest in <u>Libya</u> and <u>Algeria</u> have contributed to a decision to marginally downgrade these countries as well. <u>Syria</u> incurred a sharper downgrade due to the devolution into de facto civil war and the dire security threat posed by Islamist terrorists. <u>Iraq</u> saw a similar downgrade as a result of

Bhutan Review 2016 Page 133 of 289 pages

the takeover of wide swaths of territory and the threat of genocide at the hands of Islamist terrorists. <u>Yemen</u>, likewise, has been downgraded due to political instability at the hands of secessionists, terrorists, Houthi rebels, and the intervention of external parties. Conversely, <u>Egypt</u> and <u>Tunisia</u> saw slight upgrades as their political environments stabilize.

At the low end of the spectrum, devolving security conditions and/or economic crisis have resulted in countries like <u>Pakistan</u>, <u>Afghanistan</u>, <u>Somalia</u>, and <u>Zimbabwe</u> maintaining their low ratings.

The <u>United States</u> continues to retain its previous slight downgrade due to the enduring threat of default surrounding the debt ceiling in that country, matched by a conflict-ridden political climate. In the case of <u>Mexico</u>, there is limited concern about default, but increasing alarm over the security situation in that country and the government's ability to contain it. In <u>Argentina</u>, a default to bond holders resulted in a downgrade to that country. Finally, a small but significant upgrade was attributed to <u>Cuba</u> due to its recent pro-business reforms and its normalization of ties with the United States.

Source:

CountryWatch Inc. www.countrywatch.com

Updated:

2015

Corruption Perceptions Index

Corruption Perceptions Index

Transparency International: Corruption Perceptions Index

Editor's Note:

Transparency International's <u>Corruption Perceptions Index</u> is a composite index which ranks countries in terms of the degree to which corruption is perceived to exist among public officials. This index indicates the views of national and international business people and analysts about the levels of corruption in each country. The highest (and best) level of transparency is indicated by the number, 10. The lower (and worse) levels of transparency are indicated by lower numbers.

Bhutan Review 2016 Page 134 of 289 pages

Rank	Country/Territory	CPI 2009 Score	Surveys Used	Confidence Range
1	New Zealand	9.4	6	9.1 - 9.5
2	Denmark	9.3	6	9.1 - 9.5
3	Singapore	9.2	9	9.0 - 9.4
3	Sweden	9.2	6	9.0 - 9.3
5	Switzerland	9.0	6	8.9 - 9.1
6	Finland	8.9	6	8.4 - 9.4
6	Netherlands	8.9	6	8.7 - 9.0
8	Australia	8.7	8	8.3 - 9.0
8	Canada	8.7	6	8.5 - 9.0
8	Iceland	8.7	4	7.5 - 9.4
11	Norway	8.6	6	8.2 - 9.1
12	Hong Kong	8.2	8	7.9 - 8.5
12	Luxembourg	8.2	6	7.6 - 8.8
14	Germany	8.0	6	7.7 - 8.3
14	Ireland	8.0	6	7.8 - 8.4
16	Austria	7.9	6	7.4 - 8.3

Bhutan Review 2016 Page 135 of 289 pages

17	Japan	7.7	8	7.4 - 8.0
17	United Kingdom	7.7	6	7.3 - 8.2
19	United States	7.5	8	6.9 - 8.0
20	Barbados	7.4	4	6.6 - 8.2
21	Belgium	7.1	6	6.9 - 7.3
22	Qatar	7.0	6	5.8 - 8.1
22	Saint Lucia	7.0	3	6.7 - 7.5
24	France	6.9	6	6.5 - 7.3
25	Chile	6.7	7	6.5 - 6.9
25	Uruguay	6.7	5	6.4 - 7.1
27	Cyprus	6.6	4	6.1 - 7.1
27	Estonia	6.6	8	6.1 - 6.9
27	Slovenia	6.6	8	6.3 - 6.9
30	United Arab Emirates	6.5	5	5.5 - 7.5
31	Saint Vincent and the Grenadines	6.4	3	4.9 - 7.5
32	Israel	6.1	6	5.4 - 6.7
32	Spain	6.1	6	5.5 - 6.6
34	Dominica	5.9	3	4.9 - 6.7

Bhutan Review 2016 Page 136 of 289 pages

35	Portugal	5.8	6	5.5 - 6.2
35	Puerto Rico	5.8	4	5.2 - 6.3
37	Botswana	5.6	6	5.1 - 6.3
37	Taiwan	5.6	9	5.4 - 5.9
39	Brunei Darussalam	5.5	4	4.7 - 6.4
39	Oman	5.5	5	4.4 - 6.5
39	Korea (South)	5.5	9	5.3 - 5.7
42	Mauritius	5.4	6	5.0 - 5.9
43	Costa Rica	5.3	5	4.7 - 5.9
43	Macau	5.3	3	3.3 - 6.9
45	Malta	5.2	4	4.0 - 6.2
46	Bahrain	5.1	5	4.2 - 5.8
46	Cape Verde	5.1	3	3.3 - 7.0
46	Hungary	5.1	8	4.6 - 5.7
49	Bhutan	5.0	4	4.3 - 5.6
49	Jordan	5.0	7	3.9 - 6.1
49	Poland	5.0	8	4.5 - 5.5
52	Czech Republic	4.9	8	4.3 - 5.6

Bhutan Review 2016 Page 137 of 289 pages

54 Seychelles 4.8 3 3.0 - 6.7 55 South Africa 4.7 8 4.3 - 4.9 56 Latvia 4.5 6 4.1 - 4.9 56 Malaysia 4.5 9 4.0 - 5.1 56 Namibia 4.5 6 3.9 - 5.1 56 Samoa 4.5 3 3.3 - 5.3 56 Slovakia 4.5 8 4.1 - 4.9 61 Cuba 4.4 3 3.5 - 5.1 61 Turkey 4.4 7 3.9 - 4.9 63 Italy 4.3 6 3.8 - 4.9 63 Saudi Arabia 4.3 5 3.1 - 5.3 65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Georgia 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6 69 Montenegro 3.9 5	52	Lithuania	4.9	8	4.4 - 5.4
56 Latvia 4.5 6 4.1 - 4.9 56 Malaysia 4.5 9 4.0 - 5.1 56 Namibia 4.5 6 3.9 - 5.1 56 Samoa 4.5 3 3.3 - 5.3 56 Slovakia 4.5 8 4.1 - 4.9 61 Cuba 4.4 3 3.5 - 5.1 61 Turkey 4.4 7 3.9 - 4.9 63 Italy 4.3 6 3.8 - 4.9 63 Saudi Arabia 4.3 5 3.1 - 5.3 65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	54	Seychelles	4.8	3	3.0 - 6.7
56 Malaysia 4.5 9 4.0 - 5.1 56 Namibia 4.5 6 3.9 - 5.1 56 Samoa 4.5 3 3.3 - 5.3 56 Slovakia 4.5 8 4.1 - 4.9 61 Cuba 4.4 3 3.5 - 5.1 61 Turkey 4.4 7 3.9 - 4.9 63 Italy 4.3 6 3.8 - 4.9 63 Saudi Arabia 4.3 5 3.1 - 5.3 65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	55	South Africa	4.7	8	4.3 - 4.9
56 Namibia 4.5 6 3.9 - 5.1 56 Samoa 4.5 3 3.3 - 5.3 56 Slovakia 4.5 8 4.1 - 4.9 61 Cuba 4.4 3 3.5 - 5.1 61 Turkey 4.4 7 3.9 - 4.9 63 Italy 4.3 6 3.8 - 4.9 63 Saudi Arabia 4.3 5 3.1 - 5.3 65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	56	Latvia	4.5	6	4.1 - 4.9
56 Samoa 4.5 3 3.3 - 5.3 56 Slovakia 4.5 8 4.1 - 4.9 61 Cuba 4.4 3 3.5 - 5.1 61 Turkey 4.4 7 3.9 - 4.9 63 Italy 4.3 6 3.8 - 4.9 63 Saudi Arabia 4.3 5 3.1 - 5.3 65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	56	Malaysia	4.5	9	4.0 - 5.1
56 Slovakia 4.5 8 4.1 - 4.9 61 Cuba 4.4 3 3.5 - 5.1 61 Turkey 4.4 7 3.9 - 4.9 63 Italy 4.3 6 3.8 - 4.9 63 Saudi Arabia 4.3 5 3.1 - 5.3 65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	56	Namibia	4.5	6	3.9 - 5.1
61 Cuba 4.4 3 3.5 - 5.1 61 Turkey 4.4 7 3.9 - 4.9 63 Italy 4.3 6 3.8 - 4.9 63 Saudi Arabia 4.3 5 3.1 - 5.3 65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	56	Samoa	4.5	3	3.3 - 5.3
61 Turkey 4.4 7 3.9 - 4.9 63 Italy 4.3 6 3.8 - 4.9 63 Saudi Arabia 4.3 5 3.1 - 5.3 65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	56	Slovakia	4.5	8	4.1 - 4.9
63 Italy 4.3 6 3.8 - 4.9 63 Saudi Arabia 4.3 5 3.1 - 5.3 65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	61	Cuba	4.4	3	3.5 - 5.1
63 Saudi Arabia 4.3 5 3.1 - 5.3 65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	61	Turkey	4.4	7	3.9 - 4.9
65 Tunisia 4.2 6 3.0 - 5.5 66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	63	Italy	4.3	6	3.8 - 4.9
66 Croatia 4.1 8 3.7 - 4.5 66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	63	Saudi Arabia	4.3	5	3.1 - 5.3
66 Georgia 4.1 7 3.4 - 4.7 66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	65	Tunisia	4.2	6	3.0 - 5.5
66 Kuwait 4.1 5 3.2 - 5.1 69 Ghana 3.9 7 3.2 - 4.6	66	Croatia	4.1	8	3.7 - 4.5
69 Ghana 3.9 7 3.2 - 4.6	66	Georgia	4.1	7	3.4 - 4.7
	66	Kuwait	4.1	5	3.2 - 5.1
69 Montenegro 3.9 5 3.5 - 4.4	69	Ghana	3.9	7	3.2 - 4.6
	69	Montenegro	3.9	5	3.5 - 4.4

Bhutan Review 2016 Page 138 of 289 pages

71	Bulgaria	3.8	8	3.2 - 4.5
71	FYR Macedonia	3.8	6	3.4 - 4.2
71	Greece	3.8	6	3.2 - 4.3
71	Romania	3.8	8	3.2 - 4.3
75	Brazil	3.7	7	3.3 - 4.3
75	Colombia	3.7	7	3.1 - 4.3
75	Peru	3.7	7	3.4 - 4.1
75	Suriname	3.7	3	3.0 - 4.7
79	Burkina Faso	3.6	7	2.8 - 4.4
79	China	3.6	9	3.0 - 4.2
79	Swaziland	3.6	3	3.0 - 4.7
79	Trinidad and Tobago	3.6	4	3.0 - 4.3
83	Serbia	3.5	6	3.3 - 3.9
84	El Salvador	3.4	5	3.0 - 3.8
84	Guatemala	3.4	5	3.0 - 3.9
84	India	3.4	10	3.2 - 3.6
84	Panama	3.4	5	3.1 - 3.7
84	Thailand	3.4	9	3.0 - 3.8

Bhutan Review 2016 Page 139 of 289 pages

89	Lesotho	3.3	6	2.8 - 3.8
89	Malawi	3.3	7	2.7 - 3.9
89	Mexico	3.3	7	3.2 - 3.5
89	Moldova	3.3	6	2.7 - 4.0
89	Morocco	3.3	6	2.8 - 3.9
89	Rwanda	3.3	4	2.9 - 3.7
95	Albania	3.2	6	3.0 - 3.3
95	Vanuatu	3.2	3	2.3 - 4.7
97	Liberia	3.1	3	1.9 - 3.8
97	Sri Lanka	3.1	7	2.8 - 3.4
99	Bosnia and Herzegovina	3.0	7	2.6 - 3.4
99	Dominican Republic	3.0	5	2.9 - 3.2
99	Jamaica	3.0	5	2.8 - 3.3
99	Madagascar	3.0	7	2.8 - 3.2
99	Senegal	3.0	7	2.5 - 3.6
99	Tonga	3.0	3	2.6 - 3.3
99	Zambia	3.0	7	2.8 - 3.2
106	Argentina	2.9	7	2.6 - 3.1

Bhutan Review 2016 Page 140 of 289 pages

106	Benin	2.9	6	2.3 - 3.4
106	Gabon	2.9	3	2.6 - 3.1
106	Gambia	2.9	5	1.6 - 4.0
106	Niger	2.9	5	2.7 - 3.0
111	Algeria	2.8	6	2.5 - 3.1
111	Djibouti	2.8	4	2.3 - 3.2
111	Egypt	2.8	6	2.6 - 3.1
111	Indonesia	2.8	9	2.4 - 3.2
111	Kiribati	2.8	3	2.3 - 3.3
111	Mali	2.8	6	2.4 - 3.2
111	Sao Tome and Principe	2.8	3	2.4 - 3.3
111	Solomon Islands	2.8	3	2.3 - 3.3
111	Togo	2.8	5	1.9 - 3.9
120	Armenia	2.7	7	2.6 - 2.8
120	Bolivia	2.7	6	2.4 - 3.1
120	Ethiopia	2.7	7	2.4 - 2.9
120	Kazakhstan	2.7	7	2.1 - 3.3
120	Mongolia	2.7	7	2.4 - 3.0

Bhutan Review 2016 Page 141 of 289 pages

126 Eritrea 2.6 4 1.6 - 3.8 126 Guyana 2.6 4 2.5 - 2.7 126 Syria 2.6 5 2.2 - 2.9 126 Tanzania 2.6 7 2.4 - 2.9 130 Honduras 2.5 6 2.2 - 2.8 130 Lebanon 2.5 3 1.9 - 3.1 130 Libya 2.5 6 2.2 - 2.8 130 Maldives 2.5 4 1.8 - 3.2 130 Mauritania 2.5 7 2.0 - 3.3 130 Mozambique 2.5 7 2.3 - 2.8 130 Nicaragua 2.5 6 2.3 - 2.7 130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	120	Vietnam	2.7	9	2.4 - 3.1
126 Syria 2.6 5 2.2 - 2.9 126 Tanzania 2.6 7 2.4 - 2.9 130 Honduras 2.5 6 2.2 - 2.8 130 Lebanon 2.5 3 1.9 - 3.1 130 Libya 2.5 6 2.2 - 2.8 130 Maldives 2.5 4 1.8 - 3.2 130 Mauritania 2.5 7 2.0 - 3.3 130 Mozambique 2.5 7 2.3 - 2.8 130 Nicaragua 2.5 6 2.3 - 2.7 130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	126	Eritrea	2.6	4	1.6 - 3.8
126 Tanzania 2.6 7 2.4 - 2.9 130 Honduras 2.5 6 2.2 - 2.8 130 Lebanon 2.5 3 1.9 - 3.1 130 Libya 2.5 6 2.2 - 2.8 130 Maldives 2.5 4 1.8 - 3.2 130 Mauritania 2.5 7 2.0 - 3.3 130 Mozambique 2.5 7 2.3 - 2.8 130 Nicaragua 2.5 6 2.3 - 2.7 130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	126	Guyana	2.6	4	2.5 - 2.7
130 Honduras 2.5 6 2.2 - 2.8 130 Lebanon 2.5 3 1.9 - 3.1 130 Libya 2.5 6 2.2 - 2.8 130 Maldives 2.5 4 1.8 - 3.2 130 Mauritania 2.5 7 2.0 - 3.3 130 Mozambique 2.5 7 2.3 - 2.8 130 Nicaragua 2.5 6 2.3 - 2.7 130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	126	Syria	2.6	5	2.2 - 2.9
130 Lebanon 2.5 3 1.9 - 3.1 130 Libya 2.5 6 2.2 - 2.8 130 Maldives 2.5 4 1.8 - 3.2 130 Mauritania 2.5 7 2.0 - 3.3 130 Mozambique 2.5 7 2.3 - 2.8 130 Nicaragua 2.5 6 2.3 - 2.7 130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	126	Tanzania	2.6	7	2.4 - 2.9
130 Libya 2.5 6 2.2 - 2.8 130 Maldives 2.5 4 1.8 - 3.2 130 Mauritania 2.5 7 2.0 - 3.3 130 Mozambique 2.5 7 2.3 - 2.8 130 Nicaragua 2.5 6 2.3 - 2.7 130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	130	Honduras	2.5	6	2.2 - 2.8
130 Maldives 2.5 4 1.8 - 3.2 130 Mauritania 2.5 7 2.0 - 3.3 130 Mozambique 2.5 7 2.3 - 2.8 130 Nicaragua 2.5 6 2.3 - 2.7 130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	130	Lebanon	2.5	3	1.9 - 3.1
130 Mauritania 2.5 7 2.0 - 3.3 130 Mozambique 2.5 7 2.3 - 2.8 130 Nicaragua 2.5 6 2.3 - 2.7 130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	130	Libya	2.5	6	2.2 - 2.8
130 Mozambique 2.5 7 2.3 - 2.8 130 Nicaragua 2.5 6 2.3 - 2.7 130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	130	Maldives	2.5	4	1.8 - 3.2
130 Nicaragua 2.5 6 2.3 - 2.7 130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	130	Mauritania	2.5	7	2.0 - 3.3
130 Nigeria 2.5 7 2.2 - 2.7 130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	130	Mozambique	2.5	7	2.3 - 2.8
130 Uganda 2.5 7 2.1 - 2.8 139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	130	Nicaragua	2.5	6	2.3 - 2.7
139 Bangladesh 2.4 7 2.0 - 2.8 139 Belarus 2.4 4 2.0 - 2.8	130	Nigeria	2.5	7	2.2 - 2.7
139 Belarus 2.4 4 2.0 - 2.8	130	Uganda	2.5	7	2.1 - 2.8
	139	Bangladesh	2.4	7	2.0 - 2.8
	139	Belarus	2.4	4	2.0 - 2.8
139 Pakistan 2.4 7 2.1 - 2.7	139	Pakistan	2.4	7	2.1 - 2.7
139 Philippines 2.4 9 2.1 - 2.7	139	Philippines	2.4	9	2.1 - 2.7

Bhutan Review 2016 Page 142 of 289 pages

143	Azerbaijan	2.3	7	2.0 - 2.6
143	Comoros	2.3	3	1.6 - 3.3
143	Nepal	2.3	6	2.0 - 2.6
146	Cameroon	2.2	7	1.9 - 2.6
146	Ecuador	2.2	5	2.0 - 2.5
146	Kenya	2.2	7	1.9 - 2.5
146	Russia	2.2	8	1.9 - 2.4
146	Sierra Leone	2.2	5	1.9 - 2.4
146	Timor-Leste	2.2	5	1.8 - 2.6
146	Ukraine	2.2	8	2.0 - 2.6
146	Zimbabwe	2.2	7	1.7 - 2.8
154	Côte d'Ivoire	2.1	7	1.8 - 2.4
154	Papua New Guinea	2.1	5	1.7 - 2.5
154	Paraguay	2.1	5	1.7 - 2.5
154	Yemen	2.1	4	1.6 - 2.5
158	Cambodia	2.0	8	1.8 - 2.2
158	Central African Republic	2.0	4	1.9 - 2.2
158	Laos	2.0	4	1.6 - 2.6

Bhutan Review 2016 Page 143 of 289 pages

158	Tajikistan	2.0	8	1.6 - 2.5
162	Angola	1.9	5	1.8 - 1.9
162	Congo Brazzaville	1.9	5	1.6 - 2.1
162	Democratic Republic of Congo	1.9	5	1.7 - 2.1
162	Guinea-Bissau	1.9	3	1.8 - 2.0
162	Kyrgyzstan	1.9	7	1.8 - 2.1
162	Venezuela	1.9	7	1.8 - 2.0
168	Burundi	1.8	6	1.6 - 2.0
168	Equatorial Guinea	1.8	3	1.6 - 1.9
168	Guinea	1.8	5	1.7 - 1.8
168	Haiti	1.8	3	1.4 - 2.3
168	Iran	1.8	3	1.7 - 1.9
168	Turkmenistan	1.8	4	1.7 - 1.9
174	Uzbekistan	1.7	6	1.5 - 1.8
175	Chad	1.6	6	1.5 - 1.7
176	Iraq	1.5	3	1.2 - 1.8
176	Sudan	1.5	5	1.4 - 1.7
178	Myanmar	1.4	3	0.9 - 1.8

Bhutan Review 2016 Page 144 of 289 pages

179	Afghanistan	1.3	4	1.0 - 1.5
180	Somalia	1.1	3	0.9 - 1.4

Methodology:

As noted above, the highest (and best) level of transparency with the least perceived corruption is indicated by the number, 10. The lower (and worse) levels of transparency are indicated by lower numbers

According to Transparency International, the <u>Corruption Perceptions Index</u> (CPI) table shows a country's ranking and score, the number of surveys used to determine the score, and the confidence range of the scoring.

The rank shows how one country compares to others included in the index. The CPI score indicates the perceived level of public-sector corruption in a country/territory.

The CPI is based on 13 independent surveys. However, not all surveys include all countries. The surveys used column indicates how many surveys were relied upon to determine the score for that country.

The confidence range indicates the reliability of the CPI scores and tells us that allowing for a margin of error, we can be 90% confident that the true score for this country lies within this range.

Note:

Kosovo, which separated from the Yugoslav successor state of <u>Serbia</u>, is not listed above. No calculation is available for <u>Kosovo</u> at this time, however, a future corruption index by Transparency International may include the world's newest country in its tally. Taiwan has been listed above despite its contested status; while Taiwan claims sovereign status, <u>China</u> claims ultimate jurisdiction over Taiwan. Hong Kong, which is also under the rubric of Chinese sovereignty, is listed above. Note as well that Puerto Rico, which is a <u>United States</u> domain, is also included in the list above. These inclusions likely have to do with the size and fairly autonomous status of their economies

Source:

Transparency International's Corruption Perception Index; available at URL:

Bhutan Review 2016 Page 145 of 289 pages

http://www.transparency.org

Updated:

Uploaded in 2011 using most recent ranking available; reviewed in 2015.

Competitiveness Ranking

Competitiveness Ranking

Editor's Note:

The Global Competitiveness Report's competitiveness ranking is based on the Global Competitiveness Index (GCI), which was developed for the World Economic Forum. The GCI is based on a number of competitiveness considerations, and provides a comprehensive picture of the competitiveness landscape in countries around the world. The competitiveness considerations are: institutions, infrastructure, macroeconomic environment, health and primary education, higher education and training, goods market efficiency, labour market efficiency, financial market development, technological readiness, market size, business sophistication, and innovation. The rankings are calculated from both publicly available data and the Executive Opinion Survey.

Country/Economy	GCI 2010 Rank	GCI 2010 Score	GCI 2009 Rank	Change 2009-2010
Switzerland	1	5.63	1	0
Sweden	2	5.56	4	2
Singapore	3	5.48	3	0
United States	4	5.43	2	-2
Germany	5	5.39	7	2

Bhutan Review 2016 Page 146 of 289 pages

Japan	6	5.37	8	2
Finland	7	5.37	6	-1
Netherlands	8	5.33	10	2
Denmark	9	5.32	5	-4
Canada	10	5.30	9	-1
Hong Kong SAR	11	5.30	11	0
United Kingdom	12	5.25	13	1
Taiwan, China	13	5.21	12	-1
Norway	14	5.14	14	0
France	15	5.13	16	1
Australia	16	5.11	15	-1
Qatar	17	5.10	22	5
Austria	18	5.09	17	-1
Belgium	19	5.07	18	-1
Luxembourg	20	5.05	21	1
Saudi Arabia	21	4.95	28	7
Korea, Rep.	22	4.93	19	-3
New Zealand	23	4.92	20	-3

Bhutan Review 2016 Page 147 of 289 pages

Israel	24	4.91	27	3
United Arab Emirates	25	4.89	23	-2
Malaysia	26	4.88	24	-2
China	27	4.84	29	2
Brunei Darussalam	28	4.75	32	4
Ireland	29	4.74	25	-4
Chile	30	4.69	30	0
Iceland	31	4.68	26	-5
Tunisia	32	4.65	40	8
Estonia	33	4.61	35	2
Oman	34	4.61	41	7
Kuwait	35	4.59	39	4
Czech Republic	36	4.57	31	-5
Bahrain	37	4.54	38	1
Thailand	38	4.51	36	-2
Poland	39	4.51	46	7
Cyprus	40	4.50	34	-6
Puerto Rico	41	4.49	42	1

Bhutan Review 2016 Page 148 of 289 pages

Spain	42	4.49	33	-9
Barbados	43	4.45	44	1
Indonesia	44	4.43	54	10
Slovenia	45	4.42	37	-8
Portugal	46	4.38	43	-3
Lithuania	47	4.38	53	6
Italy	48	4.37	48	0
Montenegro	49	4.36	62	13
Malta	50	4.34	52	2
India	51	4.33	49	-2
Hungary	52	4.33	58	6
Panama	53	4.33	59	6
South Africa	54	4.32	45	-9
Mauritius	55	4.32	57	2
Costa Rica	56	4.31	55	-1
Azerbaijan	57	4.29	51	-6
Brazil	58	4.28	56	-2
Vietnam	59	4.27	75	16

Bhutan Review 2016 Page 149 of 289 pages

Slovak Republic	60	4.25	47	-13
Turkey	61	4.25	61	0
Sri Lanka	62	4.25	79	17
Russian Federation	63	4.24	63	0
Uruguay	64	4.23	65	1
Jordan	65	4.21	50	-15
Mexico	66	4.19	60	-6
Romania	67	4.16	64	-3
Colombia	68	4.14	69	1
Iran	69	4.14	n/a	n/a
Latvia	70	4.14	68	-2
Bulgaria	71	4.13	76	5
Kazakhstan	72	4.12	67	-5
Peru	73	4.11	78	5
Namibia	74	4.09	74	0
Morocco	75	4.08	73	-2
Botswana	76	4.05	66	-10
Croatia	77	4.04	72	-5

Bhutan Review 2016 Page 150 of 289 pages

Guatemala	78	4.04	80	2
Macedonia, FYR	79	4.02	84	5
Rwanda	80	4.00	n/a	n/a
Egypt	81	4.00	70	-11
El Salvador	82	3.99	77	-5
Greece	83	3.99	71	-12
Trinidad and Tobago	84	3.97	86	2
Philippines	85	3.96	87	2
Algeria	86	3.96	83	-3
Argentina	87	3.95	85	-2
Albania	88	3.94	96	8
Ukraine	89	3.90	82	-7
Gambia, The	90	3.90	81	-9
Honduras	91	3.89	89	-2
Lebanon	92	3.89	n/a	n/a
Georgia	93	3.86	90	-3
Moldova	94	3.86	n/a	n/a
Jamaica	95	3.85	91	-4

Bhutan Review 2016 Page 151 of 289 pages

Serbia	96	3.84	93	-3
Syria	97	3.79	94	-3
Armenia	98	3.76	97	-1
Mongolia	99	3.75	117	18
Libya	100	3.74	88	-12
Dominican Republic	101	3.72	95	-6
Bosnia and Herzegovina	102	3.70	109	7
Benin	103	3.69	103	0
Senegal	104	3.67	92	-12
Ecuador	105	3.65	105	0
Kenya	106	3.65	98	-8
Bangladesh	107	3.64	106	-1
Bolivia	108	3.64	120	12
Cambodia	109	3.63	110	1
Guyana	110	3.62	104	-6
Cameroon	111	3.58	111	0
Nicaragua	112	3.57	115	3
Tanzania	113	3.56	100	-13

Bhutan Review 2016 Page 152 of 289 pages

Ghana	114	3.56	114	0
Zambia	115	3.55	112	-3
Tajikistan	116	3.53	122	6
Cape Verde	117	3.51	n/a	n/a
Uganda	118	3.51	108	-10
Ethiopia	119	3.51	118	-1
Paraguay	120	3.49	124	4
Kyrgyz Republic	121	3.49	123	2
Venezuela	122	3.48	113	-9
Pakistan	123	3.48	101	-22
Madagascar	124	3.46	121	-3
Malawi	125	3.45	119	-6
Swaziland	126	3.40	n/a	n/a
Nigeria	127	3.38	99	-28
Lesotho	128	3.36	107	-21
Côte d'Ivoire	129	3.35	116	-13
Nepal	130	3.34	125	-5
Mozambique	131	3.32	129	-2

Bhutan Review 2016 Page 153 of 289 pages

Mali	132	3.28	130	-2
Timor-Leste	133	3.23	126	-7
Burkina Faso	134	3.20	128	-6
Mauritania	135	3.14	127	-8
Zimbabwe	136	3.03	132	-4
Burundi	137	2.96	133	-4
Angola	138	2.93	n/a	n/a
Chad	139	2.73	131	-8

Methodology:

The competitiveness rankings are calculated from both publicly available data and the Executive Opinion Survey, a comprehensive annual survey conducted by the World Economic Forum together with its network of Partner Institutes (leading research institutes and business organizations) in the countries covered by the Report.

Highlights according to WEF --

- The <u>United States</u> falls two places to fourth position, overtaken by <u>Sweden</u> and <u>Singapore</u> in the rankings of the World Economic Forum's Global Competitiveness Report 2010-2011
- The People's Republic of <u>China</u> continues to move up the rankings, with marked improvements in several other Asian countries
- Germany moves up two places to fifth place, leading the Eurozone countries
- <u>Switzerland</u> tops the rankings

Source:

World Economic Forum; available at URL: http://www.weforum.org

<u>Updated</u>:

Bhutan Review 2016 Page 154 of 289 pages

2011 using most recent ranking available; reviewed in 2015.

Taxation

The government of Bhutan only recently (early 1999) introduced personal income taxes. There is no information available regarding corporate taxes.

Stock Market

Established in 1993, The Royal Securities Exchange of Bhutan had nine listed companies at the end of the last decade.

Partner Links

Partner Links

Bhutan Review 2016 Page 155 of 289 pages

Bhutan Review 2016 Page 156 of 289 pages

Chapter 5 Social Overview

Bhutan Review 2016 Page 157 of 289 pages

People

Background

It is a matter of great pride to the Bhutanese that their small kingdom was never colonized. Bhutanese history, which is a mixture of the oral tradition and classical literature, tells of a largely self-sufficient population that had limited contact with the outside world until the turn of the 20th century.

Today, Bhutan is divided into three major regions: the largely unpopulated northern Great Himalayan region along the Tibetan border; the Middle Himalayan zone consisting of fertile, populated valleys with a temperate climate; and southern Bhutan, which has both Himalayan foothills and bamboo jungle areas now largely cleared for rice cultivation. In total, the population of Bhutan totals approximately 700,000.

Ethnicity, Language and Religion

The people of Bhutan can be divided into three broad categories: Scharchops, the people of eastern Bhutan who are considered to the original inhabitants; Ngalongs, believed to be of Tibetan origin residing mainly in western Bhutan; and the recent migrants of Nepali descent dwelling mainly in southern Bhutan

The first two categories are now referred to as Bhutias and their language is Dzongkha, a Tibetan derivative. Other dialects of the Tibetan, Sino-Tibetan, Tibeto-Burman, Himalayish, and Tibeto-Kanauri, linguistic families are also spoken in the country. In terms of religion, most Bhutia peoples practice Buddhism

The Nepalese who settled in the southern regions of the country brought Hinduism, a religion which some regard as being closely related to Buddhism. The Nepalese language and dialects are derived from complicated and varied linguistic roots. Nepalese belongs to the Indo-European, Indo-Iranian, and Indo-Aryan classifications of languages.

Bhutan Review 2016 Page 158 of 289 pages

Health, Welfare and Human Development

In terms of health and welfare, the population of Bhutan has a life expectancy at birth of 66.7 years of age for the total population, according to recent estimates total population. Bhutan is reported to have an infant mortality rate of 46.92 deaths/1,000 live births.

In terms of literacy, 47 percent of the total population age 15 and over, can read and write. That number is obscures the gender disparity since the literacy rate for males is 60 percent while the rate for females is 34 percent. About 4.8 percent of GDP in this country is spent on education expenditures; 5.5 percent of GDP is spent on education health expenditures. Generally, access to sanitation and water in this country is good, although more problematic in certain rural areas.

A notable measure of human development is the Human Development Index (HDI), which is formulated by the United Nations Development Program. The HDI is a composite of several indicators, which measure a country's achievements in three main arenas of human development: longevity, knowledge and education, as well as economic standard of living. In a recent ranking of 177 countries, the HDI has placed Bhutan in the medium human development category, at 133th place. Updated numbers were not available.

Note: Although the concept of human development is complicated and cannot be properly captured by values and indices, the HDI, which is calculated and updated annually, offers a wide-ranging assessment of human development in certain countries, not based solely upon traditional economic and financial indicators.

Written by Dr. Denise Youngblood Coleman, Editor in Chief, www.countrywatch.com . See Bibliography for list of research sources.

Human Development Index

Human Development Index

Human Development Index (Ranked Numerically)

The <u>Human Development Index</u> (HDI) is used to measure quality of life in countries across the world. The HDI has been compiled since 1990 by the United Nations Development Programme (UNDP) on a regular basis. The HDI is a composite of several indicators, which measure a

Bhutan Review 2016 Page 159 of 289 pages

country's achievements in three main arenas of human development: longevity, education, and economic standard of living. Although the concept of human development is complicated and cannot be properly captured by values and indices, the HDI offers a wide-ranging assessment of human development in certain countries, not based solely upon traditional economic and financial indicators. For more information about the methodology used to calculate the HDI, please see the "Source Materials" in the appendices of this review.

Very High Human Development	High Human Development	Medium Human Development	Low Human Development
1. Norway	43. Bahamas	86. Fiji	128. Kenya
2. Australia	44. Lithuania	87. Turkmenistan	129. Bangladesh
3. New Zealand	45. Chile	88. Dominican Republic	130. Ghana
4. United States	46. Argentina	89. China	131. Cameroon
5. Ireland	47. Kuwait	90. El Salvador	132. Myanmar (Burma)
6. Liechtenstein	48. Latvia	91. Sri Lanka	133. Yemen
7. Netherlands	49. Montenegro	92. Thailand	134. Benin
8. Canada	50. Romania	93. Gabon	135. Madagascar
9. Sweden	51. Croatia	94. Surname	136. Mauritania
10. Germany	52. Uruguay	95. Bolivia	137. Papua New Guinea
11. Japan	53. Libya	96. Paraguay	138. Nepal

Bhutan Review 2016 Page 160 of 289 pages

12. South Korea	54. Panama	97. Philippines	139. Togo
13. Switzerland	55. Saudi Arabia	98. Botswana	140. Comoros
14. France	56. Mexico	99. Moldova	141. Lesotho
15. Israel	57. Malaysia	100. Mongolia	142. Nigeria
16. Finland	58. Bulgaria	101. Egypt	143. Uganda
17. Iceland	59. Trinidad and Tobago	102. Uzbekistan	144. Senegal
18. Belgium	60. Serbia	103. Micronesia	145. Haiti
19. Denmark	61. Belarus	104. Guyana	146. Angola
20. Spain	62. Costa Rica	105. Namibia	147. Djibouti
21. Hong King	63. Peru	106. Honduras	148. Tanzania
22. Greece	64. Albania	107. Maldives	149. Cote d'Ivoire
23. Italy	65. Russian Federation	108. Indonesia	150. Zambia
24. Luxembourg	66. Kazakhstan	109. Kyrgyzstan	151. Gambia
25. Austria	67. Azerbaijan	110. South Africa	152. Rwanda
26. United Kingdom	68. Bosnia and Herzegovina	111. Syria	153. Malawi
27. Singapore	69. Ukraine	112. Tajikistan	154. Sudan
28. Czech Republic	70. Iran	113. Vietnam	155. Afghanistan

Bhutan Review 2016 Page 161 of 289 pages

29. Slovenia	71. The former Yugoslav Republic of Macedonia	114. Morocco	156. Guinea
30. Andorra	72. Mauritius	115. Nicaragua	157. Ethiopia
31. Slovakia	73. Brazil	116. Guatemala	158. Sierra Leone
32. United Arab Emirates	74. Georgia	117. Equatorial Guinea	159. Central African Republic
33. Malta	75. Venezuela	118. Cape Verde	160. Mali
34. Estonia	76. Armenia	119. India	161. Burkina Faso
35. Cyprus	77. Ecuador	120. East Timor	162. Liberia
36. Hungary	78. Belize	121. Swaziland	163. Chad
37. Brunei	79. Colombia	122. Laos	164. Guinea- Bissau
38. Qatar	80. Jamaica	123. Solomon Islands	165. Mozambique
39. Bahrain	81. Tunisia	124. Cambodia	166. Burundi
40. Portugal	82. Jordan	125. Pakistan	167. Niger
41. Poland	83. Turkey	126. Congo RC	168. Congo DRC
42. Barbados	84. Algeria	127. Sao Tome and Principe	169. Zimbabwe
	85. Tonga		

Bhutan Review 2016 Page 162 of 289 pages

Methodology:

For more information about the methodology used to calculate the HDI, please see the "Source Materials" in the appendices of this Country Review.

Reference:

As published in United Nations Development Programme's Human Development Report 2010.

Source:

United Nations Development Programme's <u>Human Development Index</u> available at URL: <u>http://hdr.undp.org/en/statistics/</u>

Updated:

Uploaded in 2011 using ranking available; reviewed in 2015

Life Satisfaction Index

Life Satisfaction Index

Life Satisfaction Index

Created by Adrian G. White, an Analytic Social Psychologist at the University of Leicester, the "Satisfaction with Life Index" measures subjective life satisfaction across various countries. The data was taken from a metastudy (see below for source) and associates the notion of subjective happiness or life satisfaction with qualitative parameters such as health, wealth, and access to basic education. This assessment serves as an alternative to other measures of happiness that tend to rely on traditional and quantitative measures of policy on quality of life, such as GNP and GDP. The methodology involved the responses of 80,000 people across the globe.

Rank	Country	Score

Bhutan Review 2016 Page 163 of 289 pages

1	Denmark	273.4
2	Switzerland	273.33
3	Austria	260
4	Iceland	260
5	The Bahamas	256.67
6	Finland	256.67
7	Sweden	256.67
8	Iran	253.33
9	Brunei	253.33
10	Canada	253.33
11	Ireland	253.33
12	Luxembourg	253.33
13	Costa Rica	250
14	Malta	250
15	Netherlands	250
16	Antiguaand Barbuda	246.67
17	Malaysia	246.67

Bhutan Review 2016 Page 164 of 289 pages

18	New Zealand	246.67
19	Norway	246.67
20	Seychelles	246.67
21	Saint Kitts and Nevis	246.67
22	United Arab Emirates	246.67
23	United States	246.67
24	Vanuatu	246.67
25	Venezuela	246.67
26	Australia	243.33
27	Barbados	243.33
28	Belgium	243.33
29	Dominica	243.33
30	Oman	243.33
31	Saudi Arabia	243.33
32	Suriname	243.33
33	Bahrain	240
34	Colombia	240
35	Germany	240

Bhutan Review 2016 Page 165 of 289 pages

36	Guyana	240
37	Honduras	240
38	Kuwait	240
39	Panama	240
40	Saint Vincent and the Grenadines	240
41	United Kingdom	236.67
42	Dominican Republic	233.33
43	Guatemala	233.33
44	Jamaica	233.33
45	Qatar	233.33
46	Spain	233.33
47	Saint Lucia	233.33
48	Belize	230
49	Cyprus	230
50	Italy	230
51	Mexico	230
52	Samoa	230
53	Singapore	230

Bhutan Review 2016 Page 166 of 289 pages

54	Solomon Islands	230
55	Trinidad and Tobago	230
56	Argentina	226.67
57	Fiji	223.33
58	Israel	223.33
59	Mongolia	223.33
60	São Tomé and Príncipe	223.33
61	El Salvador	220
62	France	220
63	Hong Kong	220
64	Indonesia	220
65	Kyrgyzstan	220
66	Maldives	220
67	Slovenia	220
68	Taiwan	220
69	East Timor	220
70	Tonga	220
71	Chile	216.67

Bhutan Review 2016 Page 167 of 289 pages

72	Grenada	216.67
73	Mauritius	216.67
74	Namibia	216.67
75	Paraguay	216.67
76	Thailand	216.67
77	Czech Republic	213.33
78	Philippines	213.33
79	Tunisia	213.33
80	Uzbekistan	213.33
81	Brazil	210
82	China	210
83	Cuba	210
84	Greece	210
85	Nicaragua	210
86	Papua New Guinea	210
87	Uruguay	210
88	Gabon	206.67
89	Ghana	206.67

Bhutan Review 2016 Page 168 of 289 pages

91 Yemen 92 Portugal 93 Sri Lanka 94 Tajikistan 95 Vietnam 96 Bhutan 97 Comoros	203.33 203.33 203.33 203.33 200
93 Sri Lanka 94 Tajikistan 95 Vietnam 96 Bhutan	203.33 203.33 203.33
94 Tajikistan 95 Vietnam 96 Bhutan	203.33
95 Vietnam 96 Bhutan	203.33
96 Bhutan	
	200
97 Comoros	
	196.67
98 Croatia	196.67
99 Poland	196.67
100 Cape Verde	193.33
101 Kazakhstan	193.33
South Korea	193.33
103 Madagascar	193.33
104 Bangladesh	190
Republic of the Congo	190
The Gambia	190
107 Hungary	190

Bhutan Review 2016 Page 169 of 289 pages

108	Libya	190
109	South Africa	190
110	Cambodia	186.67
111	Ecuador	186.67
112	Kenya	186.67
113	Lebanon	186.67
114	Morocco	186.67
115	Peru	186.67
116	Senegal	186.67
117	Bolivia	183.33
118	Haiti	183.33
119	Nepal	183.33
120	Nigeria	183.33
121	Tanzania	183.33
122	Benin	180
123	Botswana	180
124	Guinea-Bissau	180
125	India	180

Bhutan Review 2016 Page 170 of 289 pages

126	Laos	180
127	Mozambique	180
128	Palestinian Authority	180
129	Slovakia	180
130	Myanmar	176.67
131	Mali	176.67
132	Mauritania	176.67
133	Turkey	176.67
134	Algeria	173.33
135	Equatorial Guinea	173.33
136	Romania	173.33
137	Bosnia and Herzegovina	170
138	Cameroon	170
139	Estonia	170
140	Guinea	170
141	Jordan	170
142	Syria	170
143	Sierra Leone	166.67

Bhutan Review 2016 Page 171 of 289 pages

144	Azerbaijan	163.33
145	Central African Republic	163.33
146	Republic of Macedonia	163.33
147	Togo	163.33
148	Zambia	163.33
149	Angola	160
150	Djibouti	160
151	Egypt	160
152	Burkina Faso	156.67
153	Ethiopia	156.67
154	Latvia	156.67
155	Lithuania	156.67
156	Uganda	156.67
157	Albania	153.33
158	Malawi	153.33
159	Chad	150
160	Côte d'Ivoire	150
161	Niger	150

Bhutan Review 2016 Page 172 of 289 pages

162	Eritrea	146.67
163	Rwanda	146.67
164	Bulgaria	143.33
165	Lesotho	143.33
166	Pakistan	143.33
167	Russia	143.33
168	Swaziland	140
169	Georgia	136.67
170	Belarus	133.33
171	Turkmenistan	133.33
172	Armenia	123.33
173	Sudan	120
174	Ukraine	120
175	Moldova	116.67
176	Democratic Republic of the Congo	110
177	Zimbabwe	110
178	Burundi	100

Bhutan Review 2016 Page 173 of 289 pages

Commentary:

European countries, such as <u>Denmark</u>, <u>Iceland</u>, <u>Finland</u>, <u>Sweden</u>, <u>Switzerland</u>, <u>Austria</u> resided at the top of the ranking with highest levels of self-reported life satisfaction. Conversely, European countries such as <u>Latvia</u>, <u>Lithuania</u>, <u>Moldova</u>, <u>Belarus</u> and <u>Ukraine</u> ranked low on the index. African countries such as <u>Democratic</u> Republic of Congo, <u>Zimbabwe</u> and <u>Burundi</u> found themselves at the very bottom of the ranking, and indeed, very few African countries could be found in the top 100. <u>Japan</u> was at the mid-way point in the ranking, however, other Asian countries such as <u>Brunei</u> and <u>Malaysia</u> were in the top tier, while <u>Pakistan</u> was close to the bottom with a low level of self-identified life satisfaction. As a region, the Middle East presented a mixed bad with Saudi Arabians reporing healthy levels of life satisfaction and Egyptians near the bottom of the ranking. As a region, Caribbean countries were ranked highly, consistently demonstrating high levels of life satisfaction. The findings showed that health was the most crucial determining factor in life satisfaction, followed by prosperity and education.

Source:

White, A. (2007). A Global Projection of Subjective Well-being: A Challenge To Positive Psychology? Psychtalk 56, 17-20. The data was extracted from a meta-analysis by Marks, Abdallah, Simms & Thompson (2006).

<u>Uploaded:</u>

Based on study noted above in "Source"; reviewed in 2015

Happy Planet Index

Happy Planet Index

The Happy Planet Index (HPI) is used to measure human well-being in conjunction with environmental impact. The HPI has been compiled since 2006 by the New Economics Foundation. The index is a composite of several indicators including subjective life satisfaction, life expectancy at birth, and ecological footprint per capita.

As noted by NEFA, the HPI "reveals the ecological efficiency with which human well-being is delivered." Indeed, the index combines environmental impact with human well-being to measure

Bhutan Review 2016 Page 174 of 289 pages

the environmental efficiency with which, country by country, people live long and happy lives. The countries ranked highest by the HPI are not necessarily the ones with the happiest people overall, but the ones that allow their citizens to live long and fulfilling lives, without negatively impacting this opportunity for either future generations or citizens of other countries. Accordingly, a country like the <u>United States</u> will rank low on this list due to its large per capital ecological footprint, which uses more than its fair share of resources, and will likely cause planetary damage.

It should be noted that the HPI was designed to be a counterpoint to other well-established indices of countries' development, such as Gross Domestic Product (GDP), which measures overall national wealth and economic development, but often obfuscates the realities of countries with stark variances between the rich and the poor. Moreover, the objective of most of the world's people is not to be wealthy but to be happy. The HPI also differs from the <u>Human Development Index</u> (HDI), which measures quality of life but not ecology, since it [HPI] also includes sustainability as a key indicator.

Rank	Country	HPI
1	Costa Rica	76.1
2	Dominican Republic	71.8
3	Jamaica	70.1
4	Guatemala	68.4
5	Vietnam	66.5
6	Colombia	66.1
7	Cuba	65.7
8	El Salvador	61.5
9	Brazil	61.0

Bhutan Review 2016 Page 175 of 289 pages

10	Honduras	61.0
11	Nicaragua	60.5
12	Egypt	60.3
13	Saudi Arabia	59.7
14	Philippines	59.0
15	Argentina	59.0
16	Indonesia	58.9
17	Bhutan	58.5
18	Panama	57.4
19	Laos	57.3
20	China	57.1
21	Morocco	56.8
22	Sri Lanka	56.5
23	Mexico	55.6
24	Pakistan	55.6
25	Ecuador	55.5
26	Jordan	54.6
27	Belize	54.5

Bhutan Review 2016 Page 176 of 289 pages

28	Peru	54.4
29	Tunisia	54.3
30	Trinidad and Tobago	54.2
31	Bangladesh	54.1
32	Moldova	54.1
33	Malaysia	54.0
34	Tajikistan	53.5
35	India	53.0
36	Venezuela	52.5
37	Nepal	51.9
38	Syria	51.3
39	Burma	51.2
40	Algeria	51.2
41	Thailand	50.9
42	Haiti	50.8
43	Netherlands	50.6
44	Malta	50.4
45	Uzbekistan	50.1

Bhutan Review 2016 Page 177 of 289 pages

46	Chile	49.7
47	Bolivia	49.3
48	Armenia	48.3
49	Singapore	48.2
50	Yemen	48.1
51	Germany	48.1
52	Switzerland	48.1
53	Sweden	48.0
54	Albania	47.9
55	Paraguay	47.8
56	Palestinian Authority	47.7
57	Austria	47.7
58	Serbia	47.6
59	Finland	47.2
60	Croatia	47.2
61	Kyrgyzstan	47.1
62	Cyprus	46.2
63	Guyana	45.6

Bhutan Review 2016 Page 178 of 289 pages

64	Belgium	45.4
65	Bosnia and Herzegovina	45.0
66	Slovenia	44.5
67	Israel	44.5
68	South Korea	44.4
69	Italy	44.0
70	Romania	43.9
71	France	43.9
72	Georgia	43.6
73	Slovakia	43.5
74	United Kingdom	43.3
75	Japan	43.3
76	Spain	43.2
77	Poland	42.8
78	Ireland	42.6
79	Iraq	42.6
80	Cambodia	42.3
81	Iran	42.1

Bhutan Review 2016 Page 179 of 289 pages

82	Bulgaria	42.0
83	Turkey	41.7
84	Hong Kong	41.6
85	Azerbaijan	41.2
86	Lithuania	40.9
87	Djibouti	40.4
88	Norway	40.4
89	Canada	39.4
90	Hungary	38.9
91	Kazakhstan	38.5
92	Czech Republic	38.3
93	Mauritania	38.2
94	Iceland	38.1
95	Ukraine	38.1
96	Senegal	38.0
97	Greece	37.6
98	Portugal	37.5
99	Uruguay	37.2

Bhutan Review 2016 Page 180 of 289 pages

100	Ghana	37.1
101	Latvia	36.7
102	Australia	36.6
103	New Zealand	36.2
104	Belarus	35.7
105	Denmark	35.5
106	Mongolia	35.0
107	Malawi	34.5
108	Russia	34.5
109	Chad	34.3
110	Lebanon	33.6
111	Macedonia	32.7
112	Republic of the Congo	32.4
113	Madagascar	31.5
114	United States	30.7
115	Nigeria	30.3
116	Guinea	30.3
117	Uganda	30.2

Bhutan Review 2016 Page 181 of 289 pages

118	South Africa	29.7
119	Rwanda	29.6
120	Democratic Republic of the Congo	29.0
121	Sudan	28.5
122	Luxembourg	28.5
123	United Arab Emirates	28.2
124	Ethiopia	28.1
125	Kenya	27.8
126	Cameroon	27.2
127	Zambia	27.2
128	Kuwait	27.0
129	Niger	26.9
130	Angola	26.8
131	Estonia	26.4
132	Mali	25.8
133	Mozambique	24.6
134	Benin	24.6
135	Togo	23.3

Bhutan Review 2016 Page 182 of 289 pages

136	Sierra Leone	23.1
137	Central African Republic	22.9
138	Burkina Faso	22.4
139	Burundi	21.8
140	Namibia	21.1
141	Botswana	20.9
142	Tanzania	17.8
143	Zimbabwe	16.6

Source: This material is derived from the Happy Planet Index issued by the New Economics Foundation (NEF).

Methodology: The methodology for the calculations can be found at URL: http://www.happyplanetindex.org/

Status of Women

Gender Related Development Index (GDI) Rank:

Not Ranked

Gender Empowerment Measure (GEM) Rank:

Bhutan Review 2016 Page 183 of 289 pages

Not Ranked
Female Population:
1.2 million
Female Life Expectancy at birth:
66-67 years
Total Fertility Rate:
4.7
Maternal Mortality Ratio (2000):
420
Total Number of Women Living with HIV/AIDS:
<2,000
Ever Married Women, Ages 15-19 (%):
27%
Mean Age at Time of Marriage:
21
Contraceptive Use Among Married Women, Any Method (%):
N/A
Female Adult Literacy Rate:
34%
Combined Female Gross enrollment ratio for Primary, Secondary and Tertiary schools:
14%
Female-Headed Households (%):

Bhutan Review 2016 Page 184 of 289 pages

N/A

Economically Active Females (%):

57.1%

Female Contributing Family Workers (%):

N/A

Female Estimated Earned Income:

N/A

Seats in Parliament held by women (%):

Lower or Single House: 8.7%

Upper House or Senate: N/A

Year Women Received the Right to Vote:

1953

Year Women Received the Right to Stand for Election:

1953

*The Gender Development Index (GDI) is a composite index which measures the average achievement in a country. While very similar to the Human Development Index in its use of the same variables, the GDI adjusts the average achievement of each country in terms of life expectancy, enrollment in schools, income, and literacy in accordance to the disparities between males and females.

*The Gender Empowerment Measure (GEM) is a composite index measuring gender inequality in three of the basic dimensions of empowerment; economic participation and decision-making, political participation and decision-making, and power over economic resources.

*Total Fertility Rate (TFR) is defined as the average number of babies born to women during their reproductive years. A TFR of 2.1 is considered the replacement rate; once a TFR of a population reaches 2.1 the population will remain stable assuming no immigration or emigration takes place.

Bhutan Review 2016 Page 185 of 289 pages

When the TFR is greater than 2.1 a population will increase and when it is less than 2.1 a population will eventually decrease, although due to the age structure of a population it will take years before a low TFR is translated into lower population.

- *Maternal Mortality Rate is the number of deaths to women per 100,000 live births that resulted from conditions related to pregnancy and or delivery related complications.
- *Economically Active Females are the share of the female population, ages 15 and above, whom supply, or are able to supply, labor for the production of goods and services.
- *Female Contributing Family Workers are those females who work without pay in an economic enterprise operated by a relative living in the same household.
- *Estimated Earned Income is measured according to Purchasing Power Parity (PPP) in US dollars.

Global Gender Gap Index

Global Gender Gap Index

Editor's Note:

The Global Gender Gap Index by the World Economic Forum ranks most of the world's countries in terms of the division of resources and opportunities among males and females. Specifically, the ranking assesses the gender inequality gap in these four arenas:

- 1. Economic participation and opportunity (salaries and high skilled employment participation levels)
- 2. Educational attainment (access to basic and higher level education)
- 3. Political empowerment (representation in decision-making structures)
- 4. Health and survival (life expectancy and sex ratio)

	2010			

Bhutan Review 2016 Page 186 of 289 pages

	2010 rank	2010 score	rank among 2009 countries	2009 rank	2009 score	2008 rank	2008 score	2007 rank
Country								
Iceland	1	0.8496	1	1	0.8276	4	0.7999	4
Norway	2	0.8404	2	3	0.8227	1	0.8239	2
Finland	3	0.8260	3	2	0.8252	2	0.8195	3
Sweden	4	0.8024	4	4	0.8139	3	0.8139	1
New Zealand	5	0.7808	5	5	0.7880	5	0.7859	5
Ireland	6	0.7773	6	8	0.7597	8	0.7518	9
Denmark	7	0.7719	7	7	0.7628	7	0.7538	8
Lesotho	8	0.7678	8	10	0.7495	16	0.7320	26
Philippines	9	0.7654	9	9	0.7579	6	0.7568	6
Switzerland	10	0.7562	10	13	0.7426	14	0.7360	40
Spain	11	0.7554	11	17	0.7345	17	0.7281	10
South Africa	12	0.7535	12	6	0.7709	22	0.7232	20
Germany	13	0.7530	13	12	0.7449	11	0.7394	7
Belgium	14	0.7509	14	33	0.7165	28	0.7163	19

Bhutan Review 2016 Page 187 of 289 pages

		15	15	0.7402	13	0.7366	11
16	0.7458	16	16	0.7402	12	0.7371	15
17	0.7444	17	11	0.7490	9	0.7399	12
18	0.7429	18	14	0.7416	10	0.7397	13
19	0.7411	19	31	0.7173	27	0.7179	31
20	0.7372	20	25	0.7196	31	0.7136	18
21	0.7353	21	19	0.7298	19	0.7245	46
22	0.7329	22	26	0.7195	18	0.7266	43
23	0.7271	23	20	0.7282	21	0.7241	17
24	0.7253	24	29	0.7176	25	0.7195	22
25	0.7238	25	32	0.7167	30	0.7141	29
26	0.7231	26	63	0.6889	66	0.6802	58
27	0.7194	27	22	0.7221	40	0.7049	62
28	0.7194	28	27	0.7180	32	0.7111	28
29	0.7187	29	24	0.7211	24	0.7209	33
30	0.7176	30	49	0.7002	71	0.6747	90
31	0.7176	31	21	0.7236	26	0.7188	n/a
	17 18 19 20 21 22 23 24 25 26 27 28 29 30	17 0.7444 18 0.7429 19 0.7411 20 0.7372 21 0.7353 22 0.7329 23 0.7271 24 0.7253 25 0.7238 26 0.7231 27 0.7194 28 0.7194 29 0.7187 30 0.7176	17 0.74444 17 18 0.7429 18 19 0.7411 19 20 0.7372 20 21 0.7353 21 22 0.7329 22 23 0.7271 23 24 0.7253 24 25 0.7238 25 26 0.7231 26 27 0.7194 27 28 0.7194 28 29 0.7187 29 30 0.7176 30	17 0.7444 17 11 18 0.7429 18 14 19 0.7411 19 31 20 0.7372 20 25 21 0.7353 21 19 22 0.7329 22 26 23 0.7271 23 20 24 0.7253 24 29 25 0.7238 25 32 26 0.7231 26 63 27 0.7194 27 22 28 0.7194 28 27 29 0.7187 29 24 30 0.7176 30 49	17 0.7444 17 11 0.7490 18 0.7429 18 14 0.7416 19 0.7411 19 31 0.7173 20 0.7372 20 25 0.7196 21 0.7353 21 19 0.7298 22 0.7329 22 26 0.7195 23 0.7271 23 20 0.7282 24 0.7253 24 29 0.7176 25 0.7238 25 32 0.7167 26 0.7231 26 63 0.6889 27 0.7194 27 22 0.7221 28 0.7194 28 27 0.7180 29 0.7187 29 24 0.7211 30 0.7176 30 49 0.7002	17 0.7444 17 11 0.7490 9 18 0.7429 18 14 0.7416 10 19 0.7411 19 31 0.7173 27 20 0.7372 20 25 0.7196 31 21 0.7353 21 19 0.7298 19 22 0.7329 22 26 0.7195 18 23 0.7271 23 20 0.7282 21 24 0.7253 24 29 0.7176 25 25 0.7238 25 32 0.7167 30 26 0.7231 26 63 0.6889 66 27 0.7194 27 22 0.7221 40 28 0.7194 28 27 0.7180 32 29 0.7187 29 24 0.7211 24 30 0.7176 30 49 0.7002 71	17 0.7444 17 11 0.7490 9 0.7399 18 0.7429 18 14 0.7416 10 0.7397 19 0.7411 19 31 0.7173 27 0.7179 20 0.7372 20 25 0.7196 31 0.7136 21 0.7353 21 19 0.7298 19 0.7245 22 0.7329 22 26 0.7195 18 0.7266 23 0.7271 23 20 0.7282 21 0.7241 24 0.7253 24 29 0.7176 25 0.7195 25 0.7238 25 32 0.7167 30 0.7141 26 0.7231 26 63 0.6889 66 0.6802 27 0.7194 27 22 0.7221 40 0.7049 28 0.7194 28 27 0.7180 32 0.7111 29 0.7187 29 24 0.7211 24 0.7209

Bhutan Review 2016 Page 188 of 289 pages

Portugal	32	0.7171	32	46	0.7013	39	0.7051	37
Uganda	33	0.7169	33	40	0.7067	43	0.6981	50
Moldova	34	0.7160	34	36	0.7104	20	0.7244	21
Lithuania	35	0.7132	35	30	0.7175	23	0.7222	14
Bahamas	36	0.7128	36	28	0.7179	n/a	n/a	n/a
Austria	37	0.7091	37	42	0.7031	29	0.7153	27
Guyana	38	0.7090	38	35	0.7108	n/a	n/a	n/a
Panama	39	0.7072	39	43	0.7024	34	0.7095	38
Ecuador	40	0.7072	40	23	0.7220	35	0.7091	44
Kazakhstan	41	0.7055	41	47	0.7013	45	0.6976	32
Slovenia	42	0.7047	42	52	0.6982	51	0.6937	49
Poland	43	0.7037	43	50	0.6998	49	0.6951	60
Jamaica	44	0.7037	44	48	0.7013	44	0.6980	39
Russian Federation	45	0.7036	45	51	0.6987	42	0.6994	45
France	46	0.7025	46	18	0.7331	15	0.7341	51
Estonia	47	0.7018	47	37	0.7094	37	0.7076	30
Chile	48	0.7013	48	64	0.6884	65	0.6818	86

Bhutan Review 2016 Page 189 of 289 pages

Macedonia, FYR	49	0.6996	49	53	0.6950	53	0.6914	35
Bulgaria	50	0.6983	50	38	0.7072	36	0.7077	25
Kyrgyz Republic	51	0.6973	51	41	0.7058	41	0.7045	70
Israel	52	0.6957	52	45	0.7019	56	0.6900	36
Croatia	53	0.6939	53	54	0.6944	46	0.6967	16
Honduras	54	0.6927	54	62	0.6893	47	0.6960	68
Colombia	55	0.6927	55	56	0.6939	50	0.6944	24
Singapore	56	0.6914	56	84	0.6664	84	0.6625	77
Thailand	57	0.6910	57	59	0.6907	52	0.6917	52
Greece	58	0.6908	58	85	0.6662	75	0.6727	72
Uruguay	59	0.6897	59	57	0.6936	54	0.6907	78
Peru	60	0.6895	60	44	0.7024	48	0.6959	75
China	61	0.6881	61	60	0.6907	57	0.6878	73
Botswana	62	0.6876	62	39	0.7071	63	0.6839	53
Ukraine	63	0.6869	63	61	0.6896	62	0.6856	57
Venezuela	64	0.6863	64	69	0.6839	59	0.6875	55
Czech Republic	65	0.6850	65	74	0.6789	69	0.6770	64

Bhutan Review 2016 Page 190 of 289 pages

Tanzania	66	0.6829	66	73	0.6797	38	0.7068	34
Romania	67	0.6826	67	70	0.6805	70	0.6763	47
Malawi	68	0.6824	68	76	0.6738	81	0.6664	87
Paraguay	69	0.6804	69	66	0.6868	100	0.6379	69
Ghana	70	0.6782	70	80	0.6704	77	0.6679	63
Slovak Republic	71	0.6778	71	68	0.6845	64	0.6824	54
Vietnam	72	0.6776	72	71	0.6802	68	0.6778	42
Dominican Republic	73	0.6774	73	67	0.6859	72	0.6744	65
Italy	74	0.6765	74	72	0.6798	67	0.6788	84
Gambia, The	75	0.6762	75	75	0.6752	85	0.6622	95
Bolivia	76	0.6751	76	82	0.6693	80	0.6667	80
Brueni Darussalem	77	0.6748	77	94	0.6524	99	0.6392	n/a
Albania	78	0.6726	78	91	0.6601	87	0.6591	66
Hungary	79	0.6720	79	65	0.6879	60	0.6867	61
Madagascar	80	0.6713	80	77	0.6732	74	0.6736	89
Angola	81	0.6712	81	106	0.6353	114	0.6032	110
Bangladesh	82	0.6702	82	93	0.6526	90	0.6531	100

Bhutan Review 2016 Page 191 of 289 pages

Malta	83	0.6695	83	88	0.6635	83	0.6634	76
Armenia	84	0.6669	84	90	0.6619	78	0.6677	71
Brazil	85	0.6655	85	81	0.6695	73	0.6737	74
Cyprus	86	0.6642	86	79	0.6706	76	0.6694	82
Indonesia	87	0.6615	87	92	0.6580	93	0.6473	81
Georgia	88	0.6598	88	83	0.6680	82	0.6654	67
Tajikistan	89	0.6598	89	86	0.6661	89	0.6541	79
El Salvador	90	0.6596	90	55	0.6939	58	0.6875	48
Mexico	91	0.6577	91	98	0.6503	97	0.6441	93
Zimbabwe	92	0.6574	92	95	0.6518	92	0.6485	88
Belize	93	0.6536	93	87	0.6636	86	0.6610	94
Japan	94	0.6524	94	101	0.6447	98	0.6434	91
Mauritius	95	0.6520	95	96	0.6513	95	0.6466	85
Kenya	96	0.6499	96	97	0.6512	88	0.6547	83
Cambodia	97	0.6482	97	104	0.6410	94	0.6469	98
Malaysia	98	0.6479	98	100	0.6467	96	0.6442	92
Maldives	99	0.6452	99	99	0.6482	91	0.6501	99
Azerbaijan	100	0.6446	100	89	0.6626	61	0.6856	59

Bhutan Review 2016 Page 192 of 289 pages

Senegal	101	0.6414	101	102	0.6427	n/a	n/a	n/a
Suriname	102	0.6407	102	78	0.6726	79	0.6674	56
United Arab Emirates	103	0.6397	103	112	0.6198	105	0.6220	105
Korea, Rep.	104	0.6342	104	115	0.6146	108	0.6154	97
Kuwait	105	0.6318	105	105	0.6356	101	0.6358	96
Zambia	106	0.6293	106	107	0.6310	106	0.6205	101
Tunisia	107	0.6266	107	109	0.6233	103	0.6295	102
Fiji	108	0.6256	108	103	0.6414	n/a	n/a	n/a
Guatemala	109	0.6238	109	111	0.6209	112	0.6072	106
Bahrain	110	0.6217	110	116	0.6136	121	0.5927	115
Burkina Faso	111	0.6162	111	120	0.6081	115	0.6029	117
India	112	0.6155	112	114	0.6151	113	0.6060	114
Mauritania	113	0.6152	113	119	0.6103	110	0.6117	111
Cameroon	114	0.6110	114	118	0.6108	117	0.6017	116
Nepal	115	0.6084	115	110	0.6213	120	0.5942	125
Lebanon*	116	0.6084	n/a	n/a	n/a	n/a	n/a	n/a
Qatar	117	0.6059	116	125	0.5907	119	0.5948	109

Bhutan Review 2016 Page 193 of 289 pages

Nigeria	118	0.6055	117	108	0.6280	102	0.6339	107
Algeria	119	0.6052	118	117	0.6119	111	0.6111	108
Jordan	120	0.6048	119	113	0.6182	104	0.6275	104
Ethiopia	121	0.6019	120	122	0.5948	122	0.5867	113
Oman	122	0.5950	121	123	0.5938	118	0.5960	119
Iran	123	0.5933	122	128	0.5839	116	0.6021	118
Syria	124	0.5926	123	121	0.6072	107	0.6181	103
Egypt	125	0.5899	124	126	0.5862	124	0.5832	120
Turkey	126	0.5876	125	129	0.5828	123	0.5853	121
Morocco	127	0.5767	126	124	0.5926	125	0.5757	122
Benin	128	0.5719	127	131	0.5643	126	0.5582	123
Saudi Arabia	129	0.5713	128	130	0.5651	128	0.5537	124
Côte d'Ivoire*	130	0.5691	n/a	n/a	n/a	n/a	n/a	n/a
Mali	131	0.5680	129	127	0.5860	109	0.6117	112
Pakistan	132	0.5465	130	132	0.5458	127	0.5549	126
Chad	133	0.5330	131	133	0.5417	129	0.5290	127
Yemen	134	0.4603	132	134	0.4609	130	0.4664	128
Belarus	n/a	n/a	n/a	34	0.7141	33	0.7099	23

Bhutan Review 2016 Page 194 of 289 pages

Uzbekistan	n/a	n/a	n/a	58	0.6913	55	0.6906	41

Commentary:

According to the report's index, Nordic countries, such as <u>Iceland</u>, <u>Norway</u>, <u>Finland</u>, and <u>Sweden</u> have continued to dominate at the top of the ranking for gender equality. Meanwhile, France has seen a notable decline in the ranking, largely as a result of decreased number of women holding ministerial portfolios in that country. In the Americas, the <u>United States</u> has risen in the ranking to top the region, predominantly as a result of a decreasing wage gap, as well as higher number of women holding key positions in the current Obama administration. Canada has continued to remain as one of the top ranking countries of the Americas, followed by the small Caribbean island nation of Trinidad and Tobago, which has the distinction of being among the top three countries of the Americans in the realm of gender equality. Lesotho and South African ranked highly in the index, leading not only among African countries but also in global context. Despite Lesotho still lagging in the area of life expectancy, its high ranking was attributed to high levels of female participation in the labor force and female literacy. The Philippines and Sri Lanka were the top ranking countries for gender equality for Asia, ranking highly also in global context. Philippines has continued to show strong performance in all strong performance on all four dimensions (detailed above) of the index. Finally, in the Arab world, the United Arab Emirates held the highest-rank within that region of the world; however, its placement near the bottom of the global list highlights the fact that Arab countries are generally poor performers when it comes to the matter of gender equality in global scope.

Source:

This data is derived from the latest edition of The Global Gender Gap Report by the World Economic Forum.

Available at URL:

http://www.weforum.org/en/Communities/Women%20Leaders%20and%20Gender%20Parity/Gende

Bhutan Review 2016 Page 195 of 289 pages

^{*}new country 2010

Updated:

Based on latest available data as set forth in chart; reviewed in 2014

Culture and Arts

Etiquette

Cultural Dos and Taboos

- 1. The Buddhist tradition of removing shoes before entering a house is practiced here.
- 2. The Bhutan government takes the preservation of their country's land and culture very seriously. Therefore, do not litter, flick cigarette butts on the ground, distribute religious pamphlets, or even think about graffiti painting anything.
- 3. Never point to a Buddha or touch a Buddha statue on the head.
- 4. It is considered impolite to yawn in public.
- 5. A handshake is a fine greeting between persons of the same age group. When greeting an older person it is customary to bow.
- 6. Polite and respectful behavior is a must.
- 7. Never photograph anyone without getting his or her permission first.
- 8. Modest dress, appropriate to the climate, is suggested for this country.

Bhutan Review 2016 Page 196 of 289 pages

Travel Information

Please Note: This is a generalized travel guide and it is intended to coalesce several resources that a traveler might find useful, regardless of a particular destination. As such, it does not include travel warnings for specific "hot spot" destinations.

For travel alerts and warnings, please see the United States Department of State's listings available at URL: http://travel.state.gov/content/passports/english/alertswarnings.html

Please note that travel to the following countries, based on these warnings, is ill-advised, or should be undertaken with the utmost precautions:

Afghanistan, Algeria, Burundi, Cameroon, Central African Republic, Chad, Colombia, Democratic Republic of Congo, Djibouti, El Salvador, Eritrea, Ethiopia, Guinea, Honduras, Iraq, Iran, Lebanon, Liberia, Libya, Mali, Mauritania, Mexico, Nepal, Niger, Nigeria, North Korea, Pakistan, Palestinian Territories of West Bank and Gaza, Philippines areas of Sulu Archipelago, Mindanao, and southern Sulu Sea, Saudi Arabia, Sierra Leone, Somalia, South Sudan, Syria, Ukraine, Venezuela, and Yemen.

International Travel Guide

Checklist for Travelers

- 1. Take out travel insurance to cover hospital treatment or medical evacuation. Overseas medical costs are expensive to most international travelers, where one's domestic, nationalized or even private health insurance plans will not provide coverage outside one's home country. Learn about "reciprocal insurance plans" that some international health care companies might offer.
- **2.** Make sure that one's travel insurance is appropriate. If one intends to indulge in adventurous activities, such as parasailing, one should be sure that one is fully insured in such cases. Many traditional insurance policies do not provide coverage in cases of extreme circumstances.
- **3.** Take time to learn about one's destination country and culture. Read and learn about the place one is traveling. Also check political, economic and socio-cultural developments at the destination by reading country-specific travel reports and fact sheets noted below.
- **4.** Get the necessary visas for the country (or countries) one intends to visit but be aware that a visa does not guarantee entry. A number of useful sites regarding visa and other entry requirements are noted below.
- **5.** Keep in regular contact with friends and relatives back at home by phone or email, and be sure to leave a travel itinerary.
- **6.** Protect one's personal information by making copies of one's passport details, insurance policy, travelers checks and credit card numbers. Taking copies of such documents with you, while leaving another collection copies with someone at home is also good practice for travelers. Taking copies of one's passport photograph is also recommended.

Bhutan Review 2016 Page 197 of 289 pages

- 7. Stay healthy by taking all possible precautions against illness. Also, be sure to take extra supplies of prescription drugs along for the trip, while also taking time to pack general pharmaceutical supplies, such as aspirin and other such painkillers, bandages, stomach ailment medication, anti-inflammatory medication and anti-bacterial medication.
- **8.** Do not carry illicit drugs. Understand that the punishment for possession or use of illegal drugs in some countries may be capital punishment. Make sure your prescription drugs are legal in the countries you plan to visit.
- **9.** Know the laws of one's destination country and culture; be sure to understand the repercussions of breaking those laws and regulations. Often the transparency and freedoms of the juridical system at home is not consistent with that of one's destination country. Become aware of these complexities and subtleties before you travel.
- **10.** For longer stays in a country, or where the security situation is volatile, one should register one's self and traveling companions at the local embassy or consulate of one's country of citizenship.
- 11. Women should take care to be prepared both culturally and practically for traveling in a different country and culture. One should be sure to take sufficient supplies of personal feminine products and prescription drugs. One should also learn about local cultural standards for women, including norms of dressing. Be aware that it is simply inappropriate and unsafe for women to travel alone in some countries, and take the necessary precautions to avoid risk-filled situations.
- 12. If one is traveling with small children, one should pack extra supplies, make arrangements with the travel carrier for proper seating that would adequately accommodate children, infants or toddlers. Note also that whether one is male of female, traveling with children means that one's hands are thus not free to carry luggage and bags. Be especially aware that this makes one vulnerable to pickpockets, thieves and other sorts of crime.
- 13. Make proper arrangements for accommodations, well in advance of one's arrival at a destination. Some countries have limited accommodation, while others may have culturally distinctive facilities. Learning about these practicalities before one travels will greatly aid the enjoyment of one's trip.
- **14.** Travel with different forms of currency and money (cash, traveler's checks and credit cards) in anticipation that venues may not accept one or another form of money. Also, ensuring that one's financial resources are not contained in one location, or by one person (if one is traveling with others) can be a useful measure, in the event that one loses a wallet or purse.
- **15.** Find out about transportation in the destination country. In some places, it might be advisable to hire a local driver or taxi guide for safety reasons, while in other countries, enjoying one's travel experience may well be enhanced by renting a vehicle and seeing the local sights and culture independently. Costs may also be prohibitive for either of these choices, so again, prior planning is suggested.

Tips for Travelers

Bhutan Review 2016 Page 198 of 289 pages

Bhutan is a small land-locked Himalayan monarchy. By treaty, it accepts the guidance of India in foreign affairs. Facilities for tourism are limited.

Tourists are admitted only in groups by pre-arrangement with the Tourism Authority of Bhutan, P.O. Box 126, Thimpu, Bhutan, tel. (975-2) 23251, 23252; fax (975-2) 23695. Entry is available only via India, Bangladesh, Nepal, and Thailand. The border with China is closed.

Visitors to Bhutan are required to book through a registered tour operator in Bhutan. This can be done directly or through a travel agent abroad. The minimum daily tariff is regulated and fixed by the Royal Government. The rate includes all accommodations, all meals, transportation, services of licensed guides and porters, and cultural programs where and when available.

A passport and visa are required for entry into and exit from Bhutan. All visitors, including those on official business, must obtain visas prior to entering the country. There are no provisions for visas upon arrival.

There is relatively little crime in Bhutan. Petty crime, such as pick-pocketing and purse snatching, is occasionally reported. The loss or theft of passport abroad should be reported immediately to local police and your nearest embassy or consulate.

Medical facilities in Bhutan are limited. Some medicine is in short supply. Serious medical problems requiring hospitalization and/or medical evacuation to the United States can cost thousands of dollars or more. Doctors and hospitals often expect immediate cash payment for health services

Uninsured travelers who require medical care overseas may face extreme difficulties. Please check with your own insurance company to confirm whether your policy applies overseas, including provision for medical evacuation and for adequacy of coverage. Serious medical problems requiring hospitalization and/or medical evacuation to your home country or elsewhere can be very expensive. Please ascertain whether payment will be made to the overseas hospital or doctor or whether you will be reimbursed later for expenses that you incur. Some insurance policies also include coverage for psychiatric treatment and for disposition of remains in the event of death.

While in a foreign country, you may encounter road conditions that differ significantly from those in your home country. The information below concerning Bhutan is provided for general reference only, and may not be totally accurate in a particular location or circumstance.

Safety of Public Transportation: Not Applicable (Tourists pay a set fee per day, which includes supplied transportation.)

Road Conditions/Maintenance in Urban Areas: Good Road Conditions/Maintenance in Rural Areas: Poor

Availability of Roadside Assistance: Poor

Bhutan Review 2016 Page 199 of 289 pages

Although Bhutan's road network is not extensive, principal sites likely to be visited by travelers are connected by reasonably well-maintained, paved, two-lane roads. Traffic is rarely heavy, but sharp curves, narrow lanes, and limited visibility in mountainous terrain make traveling slow and potentially hazardous. Reduced speeds and special caution are advisable.

Bhutan customs authorities enforce strict regulations concerning temporary importation into or export from Bhutan of items such as firearms, ammunition, explosives and military stores; narcotics and drugs (except for medically prescribed drugs); wildlife products, especially those of endangered species; and antiques. Please contact the Tourism Authority of Bhutan for specific information on customs requirements. (Please see the section on Entry/Exit Requirements.)

While in a foreign country, you are subject to that country's laws and regulations. Penalties for breaking the law can be more severe than penalties for similar offenses in your home country. Persons violating Bhutan laws, even unknowingly, may be expelled, arrested or imprisoned. Penalties for possession of, use of, or trafficking in illegal drugs are strictly enforced in Bhutan. Convicted offenders can expect jail sentences and heavy fines.

Bhutan is an earthquake-prone country.

<u>Note</u>: This information is directly quoted from the United States Department of State Consular Information Sheet.

Sources: United States Department of State Consular Information Sheet

Business Culture: Information for Business Travelers

For more general information on etiquette in Bhutan see our Cultural Etiquette page.

Online Resources Regarding Entry Requirements and Visas

Online Resources Regarding Entry Requirements and Visas

Foreign Entry Requirements for Americans from the United States Department of State http://travel.state.gov/travel/cis pa tw/cis/cis 1765.html

Visa Services for Non-Americans from the United States Department of State http://travel.state.gov/visa/visa_1750.html

Bhutan Review 2016 Page 200 of 289 pages

Visa Bulletins from the United States Department of State http://travel.state.gov/visa/frvi/bulletin/bulletin_1360.html

Visa Waivers from the United States Department of State http://travel.state.gov/visa/temp/without/without_1990.html - new

Passport and Visa Information from the Government of the United Kingdom http://www.bia.homeoffice.gov.uk/

Visa Information from the Government of Australia http://www.dfat.gov.au/visas/index.html

Passport Information from the Government of Australia https://www.passports.gov.au/Web/index.aspx

Passport Information from the Government of Canada http://www.voyage.gc.ca/preparation information/passport passeport-eng.asp

Visa Information from the Government of Canada http://www.voyage.gc.ca/preparation information/visas-eng.asp

Online Visa Processing by Immigration Experts by VisaPro http://www.visapro.com

Sources: United States Department of State, United Kingdom Foreign and Commonwealth Office, Government of Australia: Department of Foreign Affairs and Trade, Government of Canada Department of Foreign Affairs and International Trade

Useful Online Resources for Travelers

Country-Specific Travel Information from United States http://travel.state.gov/travel/cis pa tw/cis/cis 1765.html

Travel Advice by Country from Government of United Kingdom http://www.fco.gov.uk/en/travelling-and-living-overseas/travel-advice-by-country/

General Travel Advice from Government of Australia http://www.smartraveller.gov.au/zw-cgi/view/Advice/General

Travel Bulletins from the Government of Australia

Bhutan Review 2016 Page 201 of 289 pages

http://www.smartraveller.gov.au/zw-cgi/view/TravelBulletins/

Travel Tips from Government of Australia http://www.smartraveller.gov.au/tips/index.html

Travel Checklist by Government of Canada http://www.voyage.gc.ca/preparation_information/checklist_sommaire-eng.asp

Travel Checklist from Government of United Kingdom http://www.fco.gov.uk/en/travelling-and-living-overseas/staying-safe/checklist

Your trip abroad from United States Department of State http://travel.state.gov/travel/tips/brochures/brochures 1225.html

A safe trip abroad from United States Department of State http://travel.state.gov/travel/tips/safety/safety/safety/1747.html

Tips for expatriates abroad from United States Department of State http://travel.state.gov/travel/living/residing_1235.html

Tips for students from United States Department of State <a href="http://travel.state.gov/travel/living/studyin

Medical information for travelers from United States Department of State http://travel.state.gov/travel/tips/health/health/https://travel.state.gov/travel/tips/health/health/https://travel.state.gov/travel/tips/health/health/https://travel.state.gov/travel/tips/health/health/https://travel.state.gov/travel/tips/health/health/https://travel.state.gov/travel/tips/health/<a href="https://travel.state.g

US Customs Travel information http://www.customs.gov/xp/cgov/travel/

Sources: United States Department of State; United States Customs Department, United Kingdom Foreign and Commonwealth Office, Foreign and Commonwealth Office, Government of Australia; Government of Canada: Department of Foreign Affairs and International Trade

Other Practical Online Resources for Travelers

Foreign Language Phrases for Travelers http://www.travlang.com/languages/
http://www.omniglot.com/language/phrases/index.htm

World Weather Forecasts

Bhutan Review 2016 Page 202 of 289 pages

http://www.intellicast.com/

http://www.wunderground.com/

http://www.worldweather.org/

Worldwide Time Zones, Map, World Clock

http://www.timeanddate.com/

http://www.worldtimezone.com/

International Airport Codes

http://www.world-airport-codes.com/

International Dialing Codes

http://www.kropla.com/dialcode.htm

http://www.countrycallingcodes.com/

International Phone Guide

http://www.kropla.com/phones.htm

International Mobile Phone Guide

http://www.kropla.com/mobilephones.htm

International Internet Café Search Engine

http://cybercaptive.com/

Global Internet Roaming

http://www.kropla.com/roaming.htm

World Electric Power Guide

http://www.kropla.com/electric.htm

http://www.kropla.com/electric2.htm

World Television Standards and Codes

http://www.kropla.com/tv.htm

International Currency Exchange Rates

http://www.xe.com/ucc/

Banking and Financial Institutions Across the World

http://www.123world.com/banks/index.html

International Credit Card or Automated Teller Machine (ATM) Locator

http://visa.via.infonow.net/locator/global/

Bhutan Review 2016 Page 203 of 289 pages

http://www.mastercard.com/us/personal/en/cardholderservices/atmlocations/index.html

International Chambers of Commerce http://www.123world.com/chambers/index.html

World Tourism Websites http://123world.com/tourism/

Diplomatic and Consular Information

United States Diplomatic Posts Around the World http://www.usembassy.gov/

United Kingdom Diplomatic Posts Around the World http://www.fco.gov.uk/en/about-the-fco/embassies-and-posts/find-an-embassy-overseas/

Australia's Diplomatic Posts Around the World http://www.dfat.gov.au/missions/
http://www.dfat.gov.au/embassies.html

Canada's Embassies and High Commissions http://www.international.gc.ca/ciw-cdm/embassies-ambassades.aspx

Resources for Finding Embassies and other Diplomatic Posts Across the World http://www.escapeartist.com/embassy1/embassy1.htm

Safety and Security

Travel Warnings by Country from Government of Australia http://www.smartraveller.gov.au/zw-cgi/view/Advice/

Travel Warnings and Alerts from United States Department of State http://travel.state.gov/travel/cis_pa_tw/pa/pa_1766.html

Travel Reports and Warnings by Government of Canada http://www.voyage.gc.ca/countries_pays/menu-eng.asp http://www.voyage.gc.ca/countries_pays/updates mise-a-jour-eng.asp

Bhutan Review 2016 Page 204 of 289 pages

Travel Warnings from Government of United Kingdom

http://www.fco.gov.uk/en/travelling-and-living-overseas/travel-advice-by-country/http://www.fco.gov.uk/en/travelling-and-living-overseas/travel-advice-by-country/?action=noTravelAll#noTravelAll

Sources: United Kingdom Foreign and Commonwealth Office, the United States Department of State, the Government of Canada: Department of Foreign Affairs and International Trade, Government of Australia: Department of Foreign Affairs and Trade

Other Safety and Security Online Resources for Travelers

United States Department of State Information on Terrorism http://www.state.gov/s/ct/

Government of the United Kingdom Resource on the Risk of Terrorism http://www.fco.gov.uk/servlet/Front?
pagename=OpenMarket/Xcelerate/ShowPage&c=Page&cid=1044011304926

Government of Canada Terrorism Guide http://www.international.gc.ca/crime/terrorism-terrorisme.aspx?lang=eng

Information on Terrorism by Government of Australia http://www.dfat.gov.au/icat/index.html

FAA Resource on Aviation Safety http://www.faasafety.gov/

In-Flight Safety Information for Air Travel (by British Airways crew trainer, Anna Warman) http://www.warman.demon.co.uk/anna/inflight.html

Hot Spots: Travel Safety and Risk Information http://www.airsecurity.com/hotspots/HotSpots.asp

Information on Human Rights http://www.state.gov/g/drl/hr/

Sources: The United States Department of State, the United States Customs Department, the Government of Canada, the Government of United Kingdom, the Government of Australia, the Federal Aviation Authority, Anna Warman's In-flight Website, Hot Spots Travel and Risk Information

Bhutan Review 2016 Page 205 of 289 pages

Diseases/Health Data

Please Note: Most of the entry below constitutes a generalized health advisory, which a traveler might find useful, regardless of a particular destination.

As a supplement, however, reader will also find below a list of countries flagged with current health notices and alerts issued by the Centers for Disease Control and Prevention (CDC). Please note that travel to the following countries, based on these 3 levels of warnings, is ill-advised, or should be undertaken with the utmost precaution:

Level 3 (highest level of concern; avoid non-essential travel) --

Guinea - Ebola Liberia - Ebola Nepal - Eathquake zone Sierra Leone - Ebola

Level 2 (intermediate level of concern; use utmost caution during travel) --

Cameroon - Polio Somalia - Polio

Vanuatu - Tropical Cyclone zone

Throughout Middle East and Arabia Peninsula - MERS ((Middle East Respiratory Syndrome)

Level 1 (standard level of concern; use practical caution during travel) -

Australia - Ross River disease Bosnia-Herzegovina - Measles

Bhutan Review 2016 Page 206 of 289 pages

Brazil - Dengue Fever

Brazil - Malaria

Brazil - Zika

China - H7N9 Avian flu

Cuba - Cholera

Egypt - H5N1 Bird flu

Ethiopia - Measles

Germany - Measles

Japan - Hand, foot, and mouth disease (HFMD)

Kyrgyzstan - Measles

Malaysia -Dengue Fever

Mexico - Chikungunya

Mexico - Hepatitis A

Nigeria - Meningitis

Philippines - Measles

Scotland - Mumps

Singapore - Hand, foot, and mouth disease (HFMD)

South Korea - MERS ((Middle East Respiratory Syndrome)

Throughout Caribbean - Chikungunya

Throughout Central America - Chikungunya

Throughout South America - Chikungunya

Throughout Pacific Islands - Chikungunya

For specific information related to these health notices and alerts please see the CDC's listing available at URL:

http://wwwnc.cdc.gov/travel/notices

Health Information for Travelers to Bhutan

Food and waterborne diseases are the number one cause of illness in travelers. Travelers' diarrhea can be caused by viruses, bacteria, or parasites, which are found throughout the region and can contaminate food or water. Infections may cause diarrhea and vomiting (*E. coli*, *Salmonella*, cholera, and parasites), fever (typhoid fever and toxoplasmosis), or liver damage (hepatitis). Make sure your food and drinking water are safe. (See below.)

Malaria is a preventable infection that can be fatal if left untreated. Prevent infection by taking prescription antimalarial drugs and protecting yourself against mosquito bites (see below). Malaria risk in this region exists in some urban and many rural areas, depending on elevation. For specific locations, see Malaria Information for Travelers to the Indian Subcontinent (http://www.cdc.gov/travel/regionalmalaria/indianrg.htm). Most travelers to the Indian Subcontinent

Bhutan Review 2016 Page 207 of 289 pages

at risk for malaria should take mefloquine to prevent malaria.

A certificate of yellow fever vaccination may be required for entry into certain of these countries if you are coming from countries in tropical South America or sub-Saharan Africa. (There is no risk for yellow fever in the Indian Subcontinent.) For detailed information, see Comprehensive Yellow Fever Vaccination Requirements (http://www.cdc.gov/travel/yelfever.htm).

Dengue, filariasis, Japanese encephalitis, leishmaniasis, and plague are diseases carried by insects that also occur in this region. Protecting yourself against insect bites (see below) will help to prevent these diseases.

If you visit the Himalayan Mountains, ascend gradually to allow time for your body to adjust to the high altitude, which can cause insomnia, headaches, nausea, and altitude sickness. In addition, use sunblock rated at least 15 SPF, because the risk of sunburn is greater at high altitudes.

Because motor vehicle crashes are a leading cause of injury among travelers, walk and drive defensively. Avoid travel at night if possible and always use seat belts.

CDC Recommends the Following Vaccines (as Appropriate for Age):

See your doctor at least 4-6 weeks before your trip to allow time for shots to take effect.

- Hepatitis A or immune globulin (IG).
- Hepatitis B, if you might be exposed to blood (for example, health-care workers), have sexual contact with the local population, stay longer than 6 months, or be exposed through medical treatment.
- Japanese encephalitis, only if you plan to visit rural areas for 4 weeks or more, except under special circumstances, such as a known outbreak of Japanese encephalitis.
- Rabies, if you might be exposed to wild or domestic animals through your work or recreation.
- Typhoid vaccination is particularly important because of the presence of *S. typhi* strains resistant to multiple antibiotics in this region.
- As needed, booster doses for tetanus-diphtheria and measles, and a one-time dose of polio for adults. Hepatitis B vaccine is now recommended for all infants and for children ages 11-12 years who did not receive the series as infants.

To Stay Healthy, Do:

- Wash hands often with soap and water.
- Drink only bottled or boiled water, or carbonated (bubbly) drinks in cans or bottles. Avoid tap water, fountain drinks, and ice cubes. If this is not possible, make water safer by BOTH filtering through an "absolute 1-micron or less" filter AND adding iodine tablets to the filtered water.

Bhutan Review 2016 Page 208 of 289 pages

- "Absolute 1-micron filters" are found in camping/outdoor supply stores.
- Eat only thoroughly cooked food or fruits and vegetables you have peeled yourself. Remember: boil it, cook it, peel it, or forget it.
- If you are going to visit areas where there is risk for malaria, take your malaria prevention medication before, during, and after travel, as directed. (See your doctor for a prescription.)
- Protect yourself from insects by remaining in well-screened areas, using repellents (applied sparingly at 4-hour intervals) and permethrin-impregnated mosquito nets, and wearing long-sleeved shirts and long pants from dusk through dawn.
- To prevent fungal and parasitic infections, keep feet clean and dry, and do not go barefoot.
- Always use latex condoms to reduce the risk of HIV and other sexually transmitted diseases.

To Avoid Getting Sick:

- Don't eat food purchased from street vendors.
- Don't drink beverages with ice.
- Don't eat dairy products unless you know they have been pasteurized.
- Don't share needles with anyone.
- Don't handle animals (especially monkeys, dogs, and cats), to avoid bites and serious diseases (including rabies and plague). (For more information, please see the Animal-Associated Hazards on the Making Travel Safe page at URL http://www.cdc.gov/travel/safety.htm.)
- Don't swim in fresh water. Salt water is usually safer. (For more information, please see the Swimming Precautions on the Making Travel Safe page.)

What You Need To Bring with You:

- Long-sleeved shirt and long pants to wear while outside whenever possible, to prevent illnesses carried by insects (e.g., malaria, dengue, filariasis, leishmaniasis, and onchocerciasis).
- Insect repellent containing DEET (diethylmethyltoluamide), in 30%-35% strength for adults and 6%-10% for children. Travelers who are not in air-conditioned or well-screened housing should purchase a bed net impregnated with the insecticide permethrin. (Bed nets can be purchased in camping or military supply stores.)
- Over-the-counter antidiarrheal medicine to take if you have diarrhea.
- Iodine tablets and water filters to purify water if bottled water is not available. See Do's above for more detailed information about water filters.
- Sunblock, sunglasses, hat.
- Prescription medications: make sure you have enough to last during your trip, as well as a copy of the prescription(s).

After You Return Home:

If you have visited an area where there is risk for malaria, continue taking your malaria medication

Bhutan Review 2016 Page 209 of 289 pages

weekly for 4 weeks after you leave the area.

If you become ill after travel-even as long as a year after your trip-tell your doctor the areas you have visited.

For More Information:

Ask your doctor or check the CDC web sites for more information about how to protect yourself against diseases that occur in the Indian Subcontinent, such as:

For information about diseases-

Carried by Insects
Dengue, Japanese encephalitis, Malaria

Carried in Food or Water Cholera, *Escherichia coli*, diarrhea, Hepatitis A, Typhoid Fever

Person-to-Person Contact Hepatitis B, HIV/AIDS

For more information about these and other diseases, please check the Diseases (http://www.cdc.gov/travel/diseases.htm) section and the Health Topics A-Z (http://www.cdc.gov/health/diseases.htm).

Note:

Bhutan is located in the Indian subcontinent health region.

Sources:

The Center for Disease Control Destinations Website: http://www.cdc.gov/travel/destinat.htm

Bhutan Review 2016 Page 210 of 289 pages

Bhutan Review 2016 Page 211 of 289 pages

Chapter 6 Environmental Overview

Bhutan Review 2016 Page 212 of 289 pages

Environmental Issues

General Overview:

Bhutan 's success in environmental conservation is largely due to its Buddhist religion – the single most important factor in Bhutanese life. Indeed the Royal Government of Bhutan uses Buddhist philosophy to emphasize its priority on environmental conservation and preservation. The only environmental issues of concern seem to be a result of agricultural development in formerly marginal areas.

Current Issues:

- -Soil erosion, resulting from agricultural development
- -Deterioration of grazing resources, resulting from agricultural development
- -Limited access to potable water
- -Increased use of chemical fertilizers
- -Land erosion, resulting from the construction of new roadways
- -Threat of pollution, resulting from urban development
- -Insufficient waste disposal facilities

Total Greenhouse Gas Emissions (Mtc):

0.5

Country Rank (GHG output):

160th

Natural Hazards:

-frequent and destructive earthquakes

Bhutan Review 2016 Page 213 of 289 pages

Environmental Policy

Regulation and Jurisdiction:

The regulation and protection of the environment in Bhutan is under the jurisdiction of the following:

- National Environment Commission
- The Royal Government of Bhutan (committed to environmental preservation and conservation)

Major Non-Governmental Organizations:

N/A

International Environmental Accords:

Party to:

- Air Pollution
- Biodiversity
- Climate Change
- Climate Change-Kyoto Protocol
- Endangered Species
- Hazardous Wastes
- Marine Dumping
- Marine Life Conservation
- Nuclear Test Ban
- Ozone Layer Protection

Signed but not ratified:

• Law of the Sea

Kyoto Protocol Status (year ratified):

Bhutan Review 2016 Page 214 of 289 pages

2002

Greenhouse Gas Ranking

Greenhouse Gas Ranking

GHG Emissions Rankings

Country Rank	Country
1	United States
2	China
4	Russia
5	Japan
6	India
7	Germany
8	United Kingdom

Bhutan Review 2016 Page 215 of 289 pages

9	Canada
10	Korea, South
11	Italy
12	Mexico
13	France
14	South Africa
15	Iran
16	Indonesia
17	Australia
18	Spain
19	Brazil
20	Saudi Arabia
21	Ukraine
22	Poland
23	Taiwan
24	Turkey
25	Thailand
26	Netherlands

Bhutan Review 2016 Page 216 of 289 pages

27	Kazakhstan
28	Malaysia
29	Egypt
30	Venezuela
31	Argentina
32	Uzbekistan
33	Czech Republic
34	Belgium
35	Pakistan
36	Romania
37	Greece
38	United Arab Emirates
39	Algeria
40	Nigeria
41	Austria
42	Iraq
43	Finland
44	Philippines

Bhutan Review 2016 Page 217 of 289 pages

45	Vietnam
46	Korea, North
47	Israel
48	Portugal
49	Colombia
50	Belarus
51	Kuwait
52	Hungary
53	Chile
54	Denmark
55	Serbia & Montenegro
56	Sweden
57	Syria
58	Libya
59	Bulgaria
60	Singapore
61	Switzerland
62	Ireland

Bhutan Review 2016 Page 218 of 289 pages

63	Turkmenistan
64	Slovakia
65	Bangladesh
66	Morocco
67	New Zealand
68	Oman
69	Qatar
70	Azerbaijan
71	Norway
72	Peru
73	Cuba
74	Ecuador
75	Trinidad & Tobago
76	Croatia
77	Tunisia
78	Dominican Republic
79	Lebanon
80	Estonia

Bhutan Review 2016 Page 219 of 289 pages

81	Yemen
82	Jordan
83	Slovenia
84	Bahrain
85	Angola
86	Bosnia & Herzegovina
87	Lithuania
88	Sri Lanka
89	Zimbabwe
90	Bolivia
91	Jamaica
92	Guatemala
93	Luxembourg
94	Myanmar
95	Sudan
96	Kenya
97	Macedonia
98	Mongolia

Bhutan Review 2016 Page 220 of 289 pages

99	Ghana
100	Cyprus
101	Moldova
102	Latvia
103	El Salvador
104	Brunei
105	Honduras
106	Cameroon
107	Panama
108	Costa Rica
109	Cote d'Ivoire
110	Kyrgyzstan
111	Tajikistan
112	Ethiopia
113	Senegal
114	Uruguay
115	Gabon
116	Albania

Bhutan Review 2016 Page 221 of 289 pages

117	Nicaragua
118	Botswana
119	Paraguay
120	Tanzania
121	Georgia
122	Armenia
123	Congo, RC
124	Mauritius
125	Nepal
126	Mauritius
127	Nepal
128	Mauritania
129	Malta
130	Papua New Guinea
131	Zambia
132	Suriname
133	Iceland
134	Togo

Bhutan Review 2016 Page 222 of 289 pages

135	Benin
136	Uganda
137	Bahamas
138	Haiti
139	Congo, DRC
140	Guyana
141	Mozambique
142	Guinea
143	Equatorial Guinea
144	Laos
145	Barbados
146	Niger
147	Fiji
148	Burkina Faso
149	Malawi
150	Swaziland
151	Belize
152	Afghanistan

Bhutan Review 2016 Page 223 of 289 pages

153	Sierra Leone
154	Eritrea
155	Rwanda
156	Mali
157	Seychelles
158	Cambodia
159	Liberia
160	Bhutan
161	Maldives
162	Antigua & Barbuda
163	Djibouti
164	Saint Lucia
165	Gambia
166	Guinea-Bissau
167	Central African Republic
168	Palau
169	Burundi
170	Grenada

Bhutan Review 2016 Page 224 of 289 pages

171	Lesotho
172	Saint Vincent & the Grenadines
173	Solomon Islands
174	Samoa
175	Cape Verde
176	Nauru
177	Dominica
178	Saint Kitts & Nevis
179	Chad
180	Tonga
181	Sao Tome & Principe
182	Comoros
183	Vanuatu
185	Kiribati
Not Ranked	Andorra
Not Ranked	East Timor
Not Ranked	Holy See
Not Ranked	Hong Kong

Bhutan Review 2016 Page 225 of 289 pages

Not Ranked	Liechtenstein
Not Ranked	Marshall Islands
Not Ranked	Micronesia
Not Ranked	Monaco
Not Ranked	San Marino
Not Ranked	Somalia
Not Ranked	Tuvalu

^{*} European Union is ranked 3rd Cook Islands are ranked 184th Niue is ranked 186th

Global Environmental Snapshot

Introduction

The countries of the world face many environmental challenges in common. Nevertheless, the nature and intensity of problem vary from region to region, as do various countries' respective capacities, in terms of affluence and infrastructure, to remediate threats to environmental quality.

Consciousness of perils affecting the global environment came to the fore in the last third or so of the 20th century has continued to intensify well into the new millennium. According to the United Nations Environment Programme, considerable environmental progress has been made at the level of institutional developments, international cooperation accords, and public participation. Approximately two-dozen international environmental protection accords with global implications have been promulgated since the late 1970s under auspices of the United Nations and other international organizations, together with many additional regional agreements. Attempts to address and rectify environmental problems take the form of legal frameworks, economic instruments,

Bhutan Review 2016 Page 226 of 289 pages

environmentally sound technologies and cleaner production processes as well as conservation efforts. Environmental impact assessments have increasingly been applied across the globe.

Environmental degradation affects the quality, or aesthetics, of human life, but it also displays potential to undermine conditions necessary for the sustainability of human life. Attitudes toward the importance of environmental protection measures reflect ambivalence derived from this bifurcation. On one hand, steps such as cleaning up pollution, dedicating parkland, and suchlike, are seen as embellishments undertaken by wealthy societies already assured they can successfully perform those functions deemed, ostensibly, more essential-for instance, public health and education, employment and economic development. On the other hand, in poorer countries, activities causing environmental damage-for instance the land degradation effects of unregulated logging, slash-and-burn agriculture, overgrazing, and mining-can seem justified insofar as such activities provide incomes and livelihoods.

Rapid rates of resource depletion are associated with poverty and high population growth, themselves correlated, whereas consumption per capita is much higher in the most developed countries, despite these nations' recent progress in energy efficiency and conservation. It is impossible to sequester the global environmental challenge from related economic, social and political challenges.

First-tier industrialized countries have recently achieved measurable decreases in environmental pollution and the rate of resource depletion, a success not matched in middle income and developing countries. It is believed that the discrepancy is due to the fact that industrialized countries have more developed infrastructures to accommodate changes in environmental policy, to apply environmental technologies, and to invest in public education. The advanced industrialized countries incur relatively lower costs in alleviating environmental problems, in comparison to developing countries, since in the former even extensive environmental programs represent a rather minuscule percentage of total expenditures. Conversely, budget constraints, lagged provision of basic services to the population, and other factors such as debt service and militarization may preclude institution of minimal environmental protection measures in the poorest countries.

A synopsis for the current situation facing each region of the world follows:

Regional Synopsis: Africa

The African continent, the world's second-largest landmass, encompasses many of the world's least developed countries. By global standards, urbanization is comparatively low but rising at a rapid rate. More heavily industrialized areas at the northern and southern ends of the continent experience the major share of industrial pollution. In other regions the most serious environmental problems typically stem from inefficient subsistence farming methods and other forms of land

Bhutan Review 2016 Page 227 of 289 pages

degradation, which have affected an increasingly extensive area under pressure of a widely impoverished, fast-growing population. Africa's distribution of natural resources is very uneven. It is the continent at greatest risk of desertification, especially in the Sahel region at the edge of the Sahara but also in other dry-range areas. Yet at the same time, Africa also harbors some of the earth's richest and most diverse biological zones.

Key Points:

Up to half a billion hectares of African land are moderately to severely degraded, an occurrence reflecting short-fallow shifting cultivation and overgrazing as well as a climatic pattern of recurrent droughts.

Soil degradation is severe along the expanse directly south of the Sahara, from the west to the east coasts. Parts of southern Africa, central-eastern Africa, and the neighboring island of Madagascar suffer from serious soil degradation as well.

Africa contains about 17 percent of the world's forest cover, concentrated in the tropical belt of the continent. Many of the forests, however, are severely depleted, with an estimated 70 percent showing some degree of degradation.

Population growth has resulted in continuing loss of arable land, as inefficient subsistence farming techniques affect increasingly extensive areas. Efforts to implement settled, sustainable agriculture have met with some recent success, but much further progress in this direction is needed. Especially in previously uninhabited forestlands, concern over deforestation is intensifying.

By contrast, the African savanna remains the richest grassland in the world, supporting a substantial concentration of animal and plant life. Wildlife parks are sub-Saharan Africa's greatest tourist attraction, and with proper management-giving local people a stake in conservation and controlling the pace of development-could greatly enhance African economies.

Significant numbers of mammal species in parts of northern, southern and eastern Africa are currently threatened, while the biological diversity in Mauritania and Madagascar is even further compromised with over 20 percent of the mammal species in these two countries currently under threat.

With marine catch trends increasing from 500,000 metric tons in the 1950s to over 3,000,000 metric tons by 2000, there was increasing concern about the reduction in fisheries and marine life, should this trend continue unabated

Water resource vulnerability is a major concern in northeastern Africa, and a moderate concern across the rest of the continent. An exception is central Africa, which has plentiful water supplies.

Bhutan Review 2016 Page 228 of 289 pages

Many Africans lack adequate access to resources, not just (if at all) because the resources are unevenly distributed geographically, but also through institutional failures such as faulty land tenure systems or political upheaval. The quality of Africa's natural resources, despite their spotty distribution, is in fact extraordinarily rich. The infrastructure needed to protect and benefit from this natural legacy, however, is largely lacking.

Regional Synopsis: Asia and the Pacific

Asia-earth's largest landmass-and the many large and nearly innumerable small islands lying off its Pacific shore display extraordinarily contrasting landscapes, levels of development, and degrees of environmental stress. In the classification used here, the world's smallest continent, Australia, is also included in the Asia-Pacific region.

The Asia-Pacific region is home to 9 of the world's 14 largest urban areas, and as energy use for utilities, industry and transport increases in developing economies, urban centers are subject to worsening air quality. Intense population density in places such as Bangladesh or Hong Kong is the quintessential image many people have of Asia, yet vast desert areas such as the Gobi and the world's highest mountain range, the Himalayas, span the continent as well. Forested areas in Southeast Asia and the islands of Indonesia and the Philippines were historically prized for their tropical hardwood, but in many places this resource is now severely depleted. Low-lying small island states are extremely vulnerable to the effects of global warming, both rising sea levels and an anticipated increase in cyclones.

Key Points:

Asian timber reserves are forecast to be depleted in the next 40 years. Loss of natural forest is irreversible in some areas, but plantation programs to restore tree cover may ameliorate a portion of the resulting land degradation.

Increased usage of fossil fuels in China and other parts of southern Asia is projected to result in a marked increase in emissions, especially in regard to carbon dioxide. The increased usage of energy has led to a marked upsurge in air pollution across the region.

Acidification is an emerging problem regionally, with sulfur dioxide emissions expected to triple by 2010 if the current growth rate is sustained. China, Thailand, India, and Korea seem to be suffering from particularly high rates of acid deposition. By contrast, Asia's most highly developed economy, Japan, has effected substantial improvements in its environmental indicators.

Water pollution in the Pacific is an urgent concern since up to 70 percent of the water discharged

Bhutan Review 2016 Page 229 of 289 pages

into the region's waters receives no treatment. Additionally, the disposal of solid wastes, in like manner, poses a major threat in a region with many areas of high population density.

The Asia-Pacific region is the largest expanse of the world's land that is adversely affected by soil degradation.

The region around Australia reportedly suffers the largest degree of ozone depletion.

The microstates of the Pacific suffer land loss due to global warming, and the consequent rise in the levels of ocean waters. A high-emissions scenario and anthropogenic climate impact at the upper end of the currently predicted range would probably force complete evacuation of the lowest-elevation islands sometime in this century.

The species-rich reefs surrounding Southeast Asia are highly vulnerable to the deleterious effects of coastal development, land-based pollution, over-fishing and exploitative fishing methods, as well as marine pollution from oil spills and other activities.

With marine catch trends increasing from 5,000,000 metric tons in the 1950s to over 20,000,000 metric tons by 2000, there was increasing concern about the reduction in fisheries and marine life, should this trend continue unabated.

Significant numbers of mammal species in parts of China and south-east Asia are currently threatened, while the biological diversity in India, Japan, Australia, the Philippines, Indonesia and parts of Malaysia is even further compromised with over 20 percent of the mammal species in these countries currently under threat.

Water resource vulnerability is a serious concern in areas surrounding the Indian subcontinent.

Regional Synopsis: Central Asia

The Central Asian republics, formerly in the Soviet Union, experience a range of environmental problems as the result of poorly executed agricultural, industrial, and nuclear programs during the Soviet era. Relatively low population densities are the norm, especially since upon the breakup of the U.S.S.R. many ethnic Russians migrated back to European Russia. In this largely semi-arid region, drought, water shortages, and soil salinization pose major challenges.

Key Points:

The use of agricultural pesticides, such as DDT and other chemicals, has contributed to the contamination of soil and groundwater throughout the region.

Bhutan Review 2016 Page 230 of 289 pages

Land and soil degradation, and in particular, increased salinization, is mostly attributable to faulty irrigation practices.

Significant desertification is also a problem in the region.

Air pollution is prevalent, mostly due to use of low octane automobile fuel.

Industrial pollution of the Caspian Sea and the Aral Sea, as a result of industrial effluents as well as mining and metal production, presents a challenge to the countries bordering these bodies of water.

One of the most severe environmental problems in the region is attributable to the several billion tons of hazardous materials stored in landfills across Central Asia.

Uzbekistan's particular problem involves the contraction of the Aral Sea, which has decreased in size by a third, as a consequence of river diversions and poor irrigation practices. The effect has been the near-total biological destruction of that body of water.

Kazakhstan, as a consequence of being the heartland of the former Soviet Union's nuclear program, has incurred a high of cancerous malignancies, biogenetic abnormalities and radioactive contamination.

While part of the Soviet Union, the republics in the region experienced very high levels of greenhouse gas emissions, as a consequence of rapid industrialization using cheap but dirty energy sources, especially coal.

By contrast, however, there have recently been substantial reductions in the level of greenhouse gas emissions, especially those attributable to coal burning, with further decreases anticipated over the next decade. These changes are partially due to the use of cleaner energy technologies, such as natural gas, augmented by governmental commitment to improving environmental standards.

Regional Synopsis: Europe

Western Europe underwent dramatic transformation of its landscape, virtually eliminating large-scale natural areas, during an era of rapid industrialization, which intensified upon its recovery from World War II. In Eastern Europe and European Russia, intensive land development has been less prevalent, so that some native forests and other natural areas remain. Air and water pollution from use of dirty fuels and industrial effluents, however, are more serious environmental problems in Eastern than in Western Europe, though recent trends show improvement in many indicators. Acid rain has inflicted heavy environmental damage across much of Europe, particularly on forests.

Bhutan Review 2016 Page 231 of 289 pages

Europe and North America are the only regions in which water usage for industry exceeds that for agriculture, although in Mediterranean nations agriculture is the largest water consumer.

Key Points:

Europe contributes 36 percent of the world's chlorofluorocarbon emissions, 30 percent of carbon dioxide emissions, and 25 percent of sulfur dioxide emissions.

Sulfur and nitrogen oxide emissions are the cause of 30 to 50 percent of Central and Eastern Europe's deforestation.

Acid rain has been an environmental concern for decades and continues to be a challenge in parts of Western Europe.

Overexploitation of up to 60 percent of Europe's groundwater presents a problem in industrial and urban areas.

With marine catch trends increasing from 5,000,000 metric tons in the 1950s to over 20,000,000 metric tons by 2000, there was increasing concern about the reduction in fisheries and marine life, should this trend continue unabated.

Significant numbers of mammal species in parts of western Europe, Eastern Europe and Russia are currently threatened, while the biological diversity on the Iberian Peninsula is even further compromised with over 40 percent of the mammal species in this region currently under threat. As a result, there has been a 10 percent increase in protected areas of Europe.

A major environmental issue for Europe involves the depletion of various already endangered or threatened species, and most significantly, the decline of fish stocks. Some estimates suggest that up to 50 percent of the continent's fish species may be considered endangered species. Coastal fisheries have been over-harvested, resulting in catch limits or moratoriums on many commercially important fish species.

Fortunately, in the last few years, these policies have started to yield measurable results with decreasing trends in marine fish catch.

Recently, most European countries have adopted cleaner production technologies, and alternative methods of waste disposal, including recycling.

The countries of Eastern Europe have made air quality a major environmental priority. This is exemplified by the Russian Federation's addition to the 1995 "Berlin Mandate" (transnational legislation based on resolutions of the Rio Earth Summit) compelling nations to promote "carbon

Bhutan Review 2016 Page 232 of 289 pages

sinks" to absorb greenhouse gases.

On a relative basis, when compared with the degree of industrial emissions emitted by many Eastern European countries until the late 1980s, there has been some marked increase in air quality in the region, as obsolete plants are closed and a transition to cleaner fuels and more efficient energy use takes place.

Regional Synopsis: The Middle and Near East

Quite possibly, the Middle East will exemplify the adage that, as the 20th century was a century fixated on oil, the 21st century will be devoted to critical decisions about water. Many (though far from all) nations in the Middle East rank among those countries with the largest oil and gas reserves, but water resources are relatively scarce throughout this predominantly dry region. Effects of global warming may cause moderately high elevation areas that now typically receive winter "snowpack" to experience mainly rain instead, which would further constrain dry-season water availability. The antiquities and religious shrines of the region render it a great magnet for tourism, which entails considerable economic growth potential but also intensifies stresses on the environment.

Key Points:

Water resource vulnerability is a serious concern across the entire region. The increased usage of, and further demand for water, has exacerbated long-standing water scarcity in the region. For instance, river diversions and industrial salt works have caused the Dead Sea to shrink by one-third from its original surface area, with further declines expected.

The oil industry in the region contributes to water pollution in the Persian Gulf, as a result of oil spills, which have averaged 1.2 million barrels of oil spilt per year (some sources suggest that this figure is understated). The consequences are severe because even after oil spills have been cleaned up, environmental damage to the food webs and ecosystems of marine life will persist for a prolonged period.

The region's coastal zone is considered one of the most fragile and endangered ecosystems of the world. Land reclamation, shoreline construction, discharge of industrial effluents, and tourism (such as diving in the Red Sea) contribute to widespread coastal damage.

Significant numbers of mammal species in parts of the Middle East are currently threatened.

Since the 1980s, 11 percent of the region's natural forest has been depleted.

Bhutan Review 2016 Page 233 of 289 pages

Regional Synopsis: Latin America and the Caribbean

The Latin American and Caribbean region is characterized by exceedingly diverse landforms that have generally seen high rates of population growth and economic development in recent decades. The percentage of inhabitants residing in urban areas is quite high at 73.4 percent; the region includes the megacities of Mexico City, Sao Paulo, and Rio de Janeiro. The region also includes the world's second-highest mountain range, the Andes; significant expanses of desert and grassland; the coral reefs of the Caribbean Sea; and the world's largest contiguous tropical forest in the Amazon basin. Threats to the latter from subsistence and commercial farming, mineral exploitation and timbering are well publicized. Nevertheless, of eight countries worldwide that still retain at least 70 percent of their original forest cover, six are in Latin America. The region accounts for nearly half (48.3 percent) of the world's greenhouse gas emissions derived from land clearing, but as yet a comparatively minuscule share (4.3 percent) of such gases from industrial sources.

Key Points:

Although Latin America is one of the most biologically diverse regions of the world, this biodiversity is highly threatened, as exemplified by the projected extinction of up to 100,000 species in the next few decades. Much of this loss will be concentrated in the Amazon area, although the western coastline of South America will also suffer significant depletion of biological diversity. The inventory of rainforest species with potentially useful commercial or medical applications is incomplete, but presumed to include significant numbers of such species that may become extinct before they are discovered and identified.

Up to 50 percent of the region's grazing land has lost its soil fertility as a result of soil erosion, salinization, alkalinization and overgrazing.

The Caribbean Sea, the Atlantic Ocean, and the Pacific Ocean have all been contaminated by agricultural wastes, which are discharged into streams that flow into these major waters. Water pollution derived from phosphorous, nitrates and pesticides adversely affects fish stocks, contributes to oxygen depletion and fosters overgrowth of aquatic vegetation. Marine life will continue to be severely compromised as a result of these conditions.

Due to industrial development in the region, many beaches of eastern Latin America and the Caribbean suffer from tar deposits.

Most cities in the region lack adequate sewage treatment facilities, and rapid migration of the rural poor into the cities is widening the gap between current infrastructure capacity and the much greater level needed to provide satisfactory basic services.

Bhutan Review 2016 Page 234 of 289 pages

The rainforest region of the Amazon Basin suffers from dangerously high levels of deforestation, which may be a significant contributory factor to global warming or "the greenhouse effect." In the late 1990s and into the new millennium, the rate of deforestation was around 20 million acres of rainforest being destroyed annually.

Deforestation on the steep rainforest slopes of Caribbean islands contributes to soil erosion and landslides, both of which then result in heavy sedimentation of nearby river systems. When these sedimented rivers drain into the sea and coral reefs, they poison the coral tissues, which are vital to the maintenance of the reef ecosystem. The result is marine degradation and nutrient depletion. Jamaica's coral reefs have never quite recovered from the effects of marine degradation.

The Southern Cone of Latin America (Argentina, Brazil, Chile, Paraguay, and Uruguay) suffers the effects of greatly increased ultraviolet-B radiation, as a consequence of more intense ozone depletion in the southern hemisphere.

Water resource vulnerability is an increasingly major concern in the northwestern portion of South America.

Regional Synopsis: North America

North American nations, in particular the United States and Canada, rank among the world's most highly developed industrial economies-a fact which has generated significant pollution problems, but also financial resources and skills that have enabled many problems to be corrected. Although efforts to promote energy efficiency, recycling, and suchlike have helped ease strains on the environment in a part of the world where per capita consumption levels are high, sprawling land development patterns and recent preferences many households have demonstrated for larger vehicles have offset these advances.

Meanwhile, a large portion of North America's original forest cover has been lost, though in many cases replaced by productive second-growth woodland. In recent years, attitudes toward best use of the region's remaining natural or scenic areas seem to be shifting toward recreation and preservation and away from resource extraction. With increasing attention on the energy scarcity in the United States, however, there is speculation that this shift may be short-lived. Indeed, the energy shortage on the west coast of the United States and associated calls for energy exploration, indicate a possible retrenchment toward resource extraction. At the same time, however, it has also served to highlight the need for energy conservation as well as alternative energy sources.

Despite generally successful anti-pollution efforts, various parts of the region continue to suffer significant air, water and land degradation from industrial, vehicular, and agricultural emissions and

Bhutan Review 2016 Page 235 of 289 pages

runoff. Mexico, as a middle-income country, displays environmental problems characteristic of a developing economy, including forest depletion, pollution from inefficient industrial processes and dirty fuels, and lack of sufficient waste-treatment infrastructure.

Key Points:

Because of significantly greater motor vehicle usage in the United States (U.S.) than in the rest of the world, the U.S. contribution of urban air pollution and greenhouse gas emissions, especially carbon dioxide, is disproportionately high in relation to its population.

Acid rain is an enduring issue of contention in the northeastern part of the United States, on the border with Canada.

Mexico's urban areas suffer extreme air pollution from carbon monoxide, nitrogen oxides, sulfur dioxide, and other toxic air pollutants. Emissions controls on vehicles are in their infancy, compared to analogous regulations in the U.S.

The cities of Mexico, including those on the U.S. border, also discharge large quantities of untreated or poorly treated sewage, though officials are currently planning infrastructure upgrades.

Deforestation is noteworthy in various regions of the U.S., especially along the northwest coastline. Old growth forests have been largely removed, but in the northeastern and upper midwestern sections of the United States, evidence suggests that the current extent of tree cover probably surpasses the figure for the beginning of the 20th century.

Extreme weather conditions in the last few years have resulted in a high level of soil erosion along the north coast of California; in addition, the coastline itself has shifted substantially due to soil erosion and concomitant landslides.

Agricultural pollution-including nitrate contamination of well water, nutrient runoff to waterways, and pesticide exposure-is significant in various areas. Noteworthy among affected places are California's Central Valley, extensive stretches of the Midwest, and land in the Chesapeake Bay watershed.

Inland waterways, especially around the Great Lakes, have substantially improved their water quality, due to concentrated efforts at reducing water pollution by governmental, commercial and community representatives. Strict curbs on industrial effluents and near-universal implementation of sewage treatment are the chief factors responsible for this improvement.

A major environmental issue for Canada and the United States involves the depletion of various

Bhutan Review 2016 Page 236 of 289 pages

already endangered or threatened species, and most significantly, the decline of fish stocks. Coastal fisheries have been over-harvested, resulting in catch limits or moratoriums on many commercially important fish species. In the last few years, these policies have started to yield measurable results with decreasing trends in marine fish catch.

Due to the decay of neighboring ecosystems in Central America and the Caribbean, the sea surrounding Florida has become increasingly sedimented, contributing to marine degradation, nutrient depletion of the ecosystem, depletion of fish stocks, and diseases to coral species in particular.

Polar Regions

Key Points:

The significant rise in sea level, amounting 10 to 25 centimeters in the last 100 years, is due to the melting of the Arctic ice sheets, and is attributed to global warming.

The Antarctic suffers from a significant ozone hole, first detected in 1976. By 1985, a British scientific team reported a 40 percent decrease in usual regeneration rates of the ozone. Because a sustained increase in the amount of ultraviolet-B radiation would have adverse consequences upon all planetary life, recent environmental measures have been put into effect, aimed at reversing ozone depletion. These measures are projected to garner significant results by 2050.

Due to air and ocean currents, the Arctic is a sink for toxic releases originally discharged thousands of miles away. Arctic wildlife and Canada's Inuit population have higher bodily levels of contaminants such as PCB and dioxin than those found in people and animals in much of the rest of the world

Global Environmental Concepts

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1. Global Warming and Greenhouse Gases

The Greenhouse Effect:

Bhutan Review 2016 Page 237 of 289 pages

In the early 19th century, the French physicist, Jean Fourier, contended that the earth's atmosphere functions in much the same way as the glass of a greenhouse, thus describing what is now understood as the "greenhouse effect." Put simply, the "greenhouse effect" confines some of the sun's energy to the earth, preserving some of the planet's warmth, rather than allowing it to flow back into space. In so doing, all kinds of life forms can flourish on earth. Thus, the "greenhouse effect" is necessary to sustain and preserve life forms and ecosystems on earth.

In the late 19th century, a Swedish chemist, Svante Arrhenius, noticed that human activities, such as the burning of coal and other fossil fuels for heat, and the removal of forested lands for urban development, led to higher concentrations of greenhouse gases, like carbon dioxide and methane, in the atmosphere. This increase in the levels of greenhouse gases was believed to advance the "greenhouse effect" exponentially, and might be related to the trend in global warming.

In the wake of the Industrial Revolution, after industrial development took place on a large scale and the total human population burgeoned simultaneously with industrialization, the resulting increase in greenhouse gas emissions could, many scientists believe, be significant enough to have some bearing on climate. Indeed, many studies in recent years support the idea that there is a linkage between human activities and global warming, although there is less consensus on the extent to which this linkage may be relevant to environmental concerns.

That said, some scientists have argued that temperature fluctuations have existed throughout the evolution of the planet. Indeed, Dr. S. Fred Singer, the president of the Science and Environment Policy Project has noted that 3,000-year-old geological records of ocean sediment reveal changes in the surface temperature of the ocean. Hence, it is possible that climate variability is merely a normal fact of the planet's evolution. Yet even skeptics as to anthropogenic factors concur that any substantial changes in global temperatures would likely have an effect upon the earth's ecosystems, as well as the life forms that inhabit them.

The Relationship Between Global Warming and Greenhouse Gases:

A large number of climatologists believe that the increase in atmospheric concentrations of "greenhouse gas emissions," mostly a consequence of human activities such as the burning of fossil fuels, are contributing to global warming. The cause notwithstanding, the planet has reportedly warmed 0.3°C to 0.6°C over the last century. Indeed, each year during the 1990s was one of the very warmest in the 20th century, with the mean surface temperature for 1999 being the fifth warmest on record since 1880.

In early 2000, a panel of atmospheric scientists for the National Research Council concluded in a report that global warming was, indeed, a reality. While the panel, headed by Chairman John Wallace, a professor of atmospheric sciences at the University of Washington, stated that it

Bhutan Review 2016 Page 238 of 289 pages

remained unclear whether human activities have contributed to the earth's increasing temperatures, it was apparent that global warming exists.

In 2001, following a request for further study by the incoming Bush administration in the <u>United States</u>, the National Academy of Sciences again confirmed that global warming had been in existence for the last 20 years. The study also projected an increase in temperature between 2.5 degrees and 10.4 degrees Fahrenheit by the year 2100. Furthermore, the study found the leading cause of global warming to be emissions of carbon dioxide from the burning of fossil fuels, and it noted that greenhouse gas accumulations in the earth's atmosphere was a result of human activities.

Within the scientific community, the controversy regarding has centered on the difference between surface air and upper air temperatures. Information collected since 1979 suggests that while the earth's surface temperature has increased by about a degree in the past century, the atmospheric temperature five miles above the earth's surface has indicated very little increase. Nevertheless, the panel stated that this discrepancy in temperature between surface and upper air does not invalidate the conclusion that global warming is taking place. Further, the panel noted that natural events, such as volcanic eruptions, can decrease the temperature in the upper atmosphere.

The major consequences of global warming potentially include the melting of the polar ice caps, which, in turn, contribute to the rise in sea levels. Many islands across the globe have already experienced a measurable loss of land as a result. Because global warming may increase the rate of evaporation, increased precipitation, in the form of stronger and more frequent storm systems, is another potential outcome. Other consequences of global warming may include the introduction and proliferation of new infectious diseases, loss of arable land (referred to as "desertification"), destructive changes to existing ecosystems, loss of biodiversity and the isolation of species, and concomitant adverse changes in the quality of human life.

International Policy Development in Regard to Global Warming:

Regardless of what the precise nature of the relationship between greenhouse gas emissions and global warming may be, it seems that there is some degree of a connection between the phenomena. Any substantial reductions in greenhouse gas emissions and global warming trends will likely involve systematic changes in industrial operations, the use of advanced energy sources and technologies, as well as global cooperation in implementing and regulating these transformations.

In this regard, the United Nations Framework Convention on Climate Change (UNFCCC) stipulated the following objectives:

1. To stabilize "greenhouse gas" concentrations within the atmosphere, in such a manner that would preclude hazardous anthropogenic intervention into the existing biosphere and ecosystems of the world. This stabilization process would facilitate the natural adaptation of ecosystems to

Bhutan Review 2016 Page 239 of 289 pages

changes in climate.

- 2. To ensure and enable sustainable development and food production on a global scale.
- *** See section on "International Environmental Agreements and Associations" for information related to international policies related to limiting greenhouse gases and controlling climate change emanating from historic summits at Kyoto, Copenhagen, Doha, and Paris. ***

2. Air Pollution

Long before global warming reared its head as a significant issue, those concerned about the environment and public health noted the deleterious effects of human-initiated combustion upon the atmosphere. Killer smogs from coal burning triggered acute health emergencies in London and other places. At a lower level of intensity motor vehicle, power plant, and industrial emissions impaired long-range visibility and probably had some chronic adverse consequences on the respiratory systems of persons breathing such air.

In time, scientists began associating the sulfur dioxide and nitrogen oxides released from coal burning with significant acid deposition in the atmosphere, eventually falling as "acid rain." This phenomenon has severely degraded forestlands, especially in Europe and a few parts of the United States. It has also impaired some aquatic ecosystems and eaten away the surface of some human artifacts, such as marble monuments. Scrubber technology and conversion to cleaner fuels have enabled the level of industrial production to remain at least constant while significantly reducing acid deposition. Technologies aimed at cleaning the air and curtailing acid rain, soot, and smog may, nonetheless, boomerang as the perils of global warming become increasingly serious. In brief, these particulates act as sort of a sun shade -- comparable to the effect of volcanic eruptions on the upper atmosphere whereby periods of active volcanism correlate with temporarily cooler weather conditions. Thus, while the carbon dioxide releases that are an inevitable byproduct of combustion continue, by scrubbing the atmosphere of pollutants, an industrial society opens itself to greater insolation (penetration of the sun's rays and consequent heating), and consequently, it is likely to experience a correspondingly greater rise in ambient temperatures.

The health benefits of removing the sources of acid rain and smog are indisputable, and no one would recommend a return to previous conditions. Nevertheless, the problematic climatic effects of continually increasing emissions of carbon dioxide and other greenhouse gases pose a major global environmental challenge, not as yet addressed adequately.

Bhutan Review 2016 Page 240 of 289 pages

3. Ozone Depletion

The stratospheric ozone layer functions to prevent ultraviolet radiation from reaching the earth. Normally, stratospheric ozone is systematically disintegrated and regenerated through natural photochemical processes. The stratospheric ozone layer, however, has been depleted unnaturally as a result of anthropogenic (man-made) chemicals, most especially chlorine and bromide compounds such as chloroflorocarbons (CFCs), halons, and various industrial chemicals in the form of solvents, refrigerants, foaming agents, aerosol propellants, fire retardants, and fumigants. Ozone depletion is of concern because it permits a greater degree of ultraviolet-B radiation to reach the earth, which then increases the incidences of cancerous malignancies, cataracts, and human immune deficiencies. In addition, even in small doses, ozone depletion affects the ecosystem by disturbing food chains, agriculture, fisheries and other forms of biological diversity.

Transnational policies enacted to respond to the dangers of ozone depletion include the 1985 Vienna Convention on the Protection of the Ozone Layer and the 1987 Montreal Protocol on Substances that Deplete the Ozone Layer. The Montreal Protocol was subsequently amended in London in 1990, Copenhagen in 1992 and Vienna in 1995. By 1996, 155 countries had ratified the Montreal Protocol, which sets out a time schedule for the reduction (and eventual elimination) of ozone depleting substances (OPS), and bans exports and imports of ODS from and to non-participant countries.

In general, the Protocol stipulates that developed countries must eliminate halon consumption by 1994 and CFC consumption by 1996, while developing countries must eliminate these substances by 2010. Consumption of methyl bromide, which is used as a fumigant, was to be frozen at the 1995 in developed countries, and fully eliminated in 2010, while developing countries are to freeze consumption by 2002, based on average 1995-1998 consumption levels. Methyl chloroform is to be phased out by 2005. Under the Montreal Protocol, most ODS will be completely eliminated from use by 2010.

4. Land Degradation

In recent decades, land degradation in more arid regions of the world has become a serious concern. The problem, manifest as both "desertification" and "devegetation," is caused primarily by climate variability and human activities, such as "deforestation," excessive cultivation, overgrazing, and other forms of land resource exploitation. It is also exacerbated by inadequate irrigation practices. Although the effects of droughts on drylands have been temporary in the past, today, the productivity and sustainability of these lands have been severely compromised for the long term. Indeed, in every region of the world, land degradation has become an acute issue.

Bhutan Review 2016 Page 241 of 289 pages

Desertification and Devegetation:

"Desertification" is a process of land degradation causing the soil to deteriorate, thus losing its nutrients and fertility, and eventually resulting in the loss of vegetation, known as "devegetation." As aforementioned, "desertification" and "devegetation" are caused by human activities, yet human beings are also the greatest casualties. Because these forms of land degradation affect the ability of the soil to produce crops, they concomitantly contribute to poverty. As population increases and demographic concentrations shift, the extent of land subject to stresses by those seeking to wrest subsistence from it has inexorably risen.

In response, the United Nations has formed the Convention to Combat Desertification-aimed at implementing programs to address the underlying causes of desertification, as well as measures to prevent and minimize its effects. Of particular significance is the formulation of policies on transboundary resources, such as areas around lakes and rivers. At a broader level, the Convention has established a Conference of Parties (COP), which includes all ratifying governments, for directing and advancing international action.

To ensure more efficacious use of funding, the Convention intends to reconfigure international aid to utilize a consultative and coordinated approach in the disbursement and expenditure of donor funds. In this way, local communities that are affected by desertification will be active participants in the solution-generation process. In-depth community education projects are envisioned as part of this new international aid program, and private donor financing is encouraged. Meanwhile, as new technologies are developed to deal with the problem of desertification, they need to be distributed for application across the world. Hence, the Convention calls for international cooperation in scientific research in this regard.

Desertification is a problem of sustainable development. It is directly connected to human challenges such as poverty, social and economic well-being and environmental protection as well. Broader environmental issues, such as climate change, biological diversity, and freshwater supplies, are indirectly related, so any effort to resolve this environmental challenge must entail coordinated research efforts and joint action.

Deforestation:

Deforestation is not a recent phenomenon. For centuries, human beings have cut down trees to clear space for land cultivation, or in order to use the wood for fuel. Over the last 200 years, and most especially after World War II, deforestation increased because the logging industry became a globally profitable endeavor, and so the clearing of forested areas was accelerated for the purposes of industrial development. In the long term, this intensified level of deforestation is considered problematic because the forest is unable to regenerate itself quickly. The deforestation that has

Bhutan Review 2016 Page 242 of 289 pages

occurred in tropical rainforests is seen as an especially serious concern, due to the perceived adverse effects of this process upon the entire global ecosystem.

The most immediate consequence of deforestation is soil degradation. Soil, which is necessary for the growth of vegetation, can be a fragile and vital property. Organically, an extensive evolution process must take place before soil can produce vegetation, yet at the same time, the effects of natural elements, such as wind and rain, can easily and quickly degrade this resource. This phenomenon is known as soil erosion. In addition, natural elements like wind and rain reduce the amount of fertile soil on the ground, making soil scarcity a genuine problem. When fertile topsoil that already exists is removed from the landscape in the process of deforestation, soil scarcity is further exacerbated. Equally significant is the fact that once land has been cleared so that the topsoil can be cultivated for crop production, not only are the nutrient reserves in the soil depleted, thus producing crops of inferior quality, but the soil structure itself becomes stressed and deteriorates further.

Another direct result of deforestation is flooding. When forests are cleared, removing the cover of vegetation, and rainfall occurs, the flow of water increases across the surface of land. When extensive water runoff takes place, the frequency and intensity of flooding increases. Other adverse effects of deforestation include the loss of wildlife and biodiversity within the ecosystem that supports such life forms.

At a broader level, tropical rainforests play a vital role in maintaining the global environmental system. Specifically, destruction of tropical rainforests affects the carbon dioxide cycle. When forests are destroyed by burning (or rotting), carbon dioxide is released into the air, thus contributing to an intensified "greenhouse effect." The increase in greenhouse gas emissions like carbon dioxide is a major contributor to global warming, according to many environmental scientists. Indeed, trees themselves absorb carbon dioxide in the process of photosynthesis, so their loss also reduces the absorption of greenhouse gases.

Tropical rainforest destruction also adversely affects the nitrogen cycle. Nitrogen is a key nutrient for both plants and animals. Plants derive nitrogen from soil, while animals obtain it via nitrogen-enriched vegetation. This element is essential for the formation of amino acids, and thereby for proteins and biochemicals that all living things need for metabolism and growth. In the nitrogen cycle, vegetation acquires these essential proteins and biochemicals, and then cyclically returns them to the atmosphere and global ecosystem. Accordingly, when tropical rainforest ecosystems are compromised, not only is vegetation removed; the atmosphere is also affected and climates are altered. At a more immediate level, the biodiversity within tropical rainforests, including wildlife and insect species and a wealth of plant varieties, is depleted. Loss of rare plants is of particular concern because certain species as yet unknown and unused could likely yield many practical benefits, for instance as medicines.

Bhutan Review 2016 Page 243 of 289 pages

As a result of the many challenges associated with deforestation, many environmental groups and agencies have argued for government policies on the sustainable development of forests by governments across the globe. While many countries have instituted national policies and programs aimed at reducing deforestation, and substantial research has been advanced in regard to sustainable and regenerative forestry development, there has been very little progress on an international level. Generally speaking, most tropical rainforests are located in developing and less developed countries, where economic growth is often dependent upon the exploitation of tropical rainforests. Timber resources as well as wildlife hunting tend to be particularly lucrative arenas.

In places such as the Amazon, where deforestation takes place for the construction of energy plants aimed at industrialization and economic development, there is an exacerbated effect on the environment. After forests are cleared in order to construct such projects, massive flooding usually ensues. The remaining trees then rot and decay in the wake of the flooding. As the trees deteriorate, their biochemical makeup becomes more acidic, producing poisonous substances such as hydrogen sulphide and methane gases. Acidified water subsequently corrodes the mechanical equipment and operations of the plants, which are already clogged by rotting wood after the floodwaters rise.

Deforestation generally arises from an economically plausible short-term motivation, but nonetheless poses a serious global concern because the effects go beyond national boundaries. The United Nations has established the World Commission on Forest and Sustainable Development. This body's task is to determine the optimal means of dealing with the issue of deforestation, without unduly affecting normal economic development, while emphasizing the global significance of protecting tropical forest ecosystems.

5. Water Resources

For all terrestrial fauna, including humans, water is the most immediate necessity to sustain life. As the population has increased and altered an ever-greater portion of the landscape from its natural condition, demand on water resources has intensified, especially with the development of industrialization and large-scale irrigation. The supply of freshwater is inherently limited, and moreover distributed unevenly across the earth's landmasses. Moreover, not just demand for freshwater but activities certain to degrade it are becoming more pervasive. By contrast, the oceans form a sort of "last wilderness," still little explored and in large part not seriously affected by human activity. However, coastal environments - the biologically richest part of the marine ecosystem-are experiencing major depletion due to human encroachment and over-exploitation.

Freshwater:

Bhutan Review 2016 Page 244 of 289 pages

In various regions, for instance the Colorado River in the western <u>United States</u>, current withdrawals of river water for irrigation, domestic, and industrial use consume the entire streamflow so that almost no water flows into the sea at the river's mouth. Yet development is ongoing in many such places, implying continually rising demand for water. In some areas reliant on groundwater, aquifers are being depleted at a markedly faster rate than they are being replenished. An example is the San Joaquin Valley in California, where decades of high water withdrawals for agriculture have caused land subsidence of ten meters or more in some spots. Naturally, the uncertainty of future water supplies is particularly acute in arid and semi-arid regions. Speculation that the phenomenon of global warming will alter geographic and seasonal rainfall patterns adds further uncertainty.

Water conservation measures have great potential to alleviate supply shortages. Some city water systems are so old and beset with leaking pipes that they lose as much water as they meter. Broad-scale irrigation could be replaced by drip-type irrigation, actually enhancing the sustainability of agriculture. In many areas where heavy irrigation has been used for decades, the result is deposition of salts and other chemicals in the soil such that the land becomes unproductive for farming and must be abandoned.

Farming is a major source of water pollution. Whereas restrictions on industrial effluents and other "point sources" are relatively easy to implement, comparable measures to reform hydraulic practices at farms and other "nonpoint sources" pose a significantly knottier challenge. Farm-caused water pollution takes the following main forms:

- Nitrate pollution found in wells in intensive farming areas as a consequence of heavy fertilizer use is a threat to human health. The most serious danger is to infants, who by ingesting high-nitrate water can contract methemoglobinemia, sometimes called "blue baby syndrome," a potentially fatal condition.
- Fertilizer runoff into rivers and lakes imparts unwanted nutrients that cause algae growth and eventual loss of oxygen in the body of water, degrading its ability to support fish and other desirable aquatic life.
- Toxic agricultural chemicals insecticides, herbicides, and fungicides are detectable in some aquifers and waterways.

In general, it is much easier to get a pollutant into water than to retrieve it out. Gasoline additives, dry cleaning chemicals, other industrial toxins, and in a few areas radionucleides have all been found in water sources intended for human use. The complexity and long time scale of subterranean hydrological movements essentially assures that pollutants already deposited in aquifers will continue to turn up for decades to come. Sophisticated water treatment processes are available, albeit expensive, to reclaim degraded water and render it fit for human consumption. Yet

Bhutan Review 2016 Page 245 of 289 pages

source protection is unquestionably a more desirable alternative.

In much of the developing world, and even some low-income rural enclaves of the developed world, the population lacks ready access to safe water. Surface water and shallow groundwater supplies are susceptible to contamination from untreated wastewater and failing septic tanks, as well as chemical hazards. The occurrence of waterborne disease is almost certainly greatly underreported.

Marine Resources:

Coastal areas have always been desirable places for human habitation, and population pressure on them continues to increase. Many types of water degradation that affect lakes and rivers also affect coastal zones: industrial effluents, untreated or partially treated sewage, nutrient load from agriculture figure prominently in both cases. Prospects for more extreme storms as a result of global warming, as well as the pervasiveness of poorly planned development in many coastal areas, forebode that catastrophic hurricanes and landslides may increase in frequency in the future. Ongoing rise in sea levels will force remedial measures and in some cases abandonment of currently valuable coastal property.

Fisheries over much of the globe have been overharvested, and immediate conservation measures are required to preserve stocks of many species. Many governments subsidized factory-scale fishing fleets in the 1970s and 1980s, and the resultant catch increase evidently surpassed a sustainable level. It is uncertain how much of the current decline in fish stocks stems from overharvesting and how much from environmental pollution. The deep ocean remains relatively unaffected by human activity, but continental shelves near coastlines are frequently seriously polluted, and these close-to-shore areas are the major biological nurseries for food fish and the smaller organisms they feed on.

6. Environmental Toxins

Toxic chemical pollution exploded on the public consciousness with disclosure of spectacularly polluted industrial areas such as Love Canal near Buffalo, New York. There is no question that pollutants such as organophosphates or radionucleides can be highly deleterious to health, but evidence to date suggests that seriously affected areas are a localized rather than universal problem.

While some explore the possibilities for a lifestyle that fully eschews use of modern industrial chemicals, the most prevalent remediative approach is to focus on more judicious use. The most efficient chemical plants are now able to contain nearly all toxic byproducts of their production processes within the premises, minimizing the release of such substances into the environment.

Bhutan Review 2016 Page 246 of 289 pages

Techniques such as Integrated Pest Management (IPM) dictate limited rather than broadcast use of pesticides: application only when needed using the safest available chemical, supplemented as much as possible with nontoxic controls.

While heightened public awareness and growing technical sophistication suggest a hopeful outlook on limiting the damage from manmade environmental toxins, one must grant that previous incidents of their misuse and mishandling have already caused environmental damage that will have to be dealt with for many years to come. In the case of the most hazardous radioactive substances, the time scale for successful remediation actually extends beyond that of the recorded history of civilization. Moreover, in this era of high population density and rapid economic growth, quotidian activities such as the transport of chemicals will occasionally, seemingly inevitably result in accidents with adverse environmental consequences.

7. "Islandization" and Biodiversity

With increased awareness regarding the adverse effects of unregulated hunting and habitat depletion upon wildlife species and other aspects of biodiversity, large-scale efforts across the globe have been initiated to reduce and even reverse this trend.

In every region of the world, many species of wildlife and areas of biodiversity have been saved from extinction. Nationally, many countries have adopted policies aimed at preservation and conservation of species, and one of the most tangible measures has been the proliferation of protected habitats. Such habitats exist in the form of wildlife reserves, marine life reserves, and other such areas where biodiversity can be protected from external encroachment and exploitation.

Despite these advances in wildlife and biodiversity protection, further and perhaps more intractable challenges linger. Designated reserves, while intended to prevent further species decline, exist as closed territories, fragmented from other such enclaves and disconnected from the larger ecosystem. This environmental scenario is referred to as "islandization." Habitat reserves often serve as oversized zoos or game farms, with landscapes and wildlife that have effectively been "tamed" to suit. Meanwhile, the larger surrounding ecosystem continues to be seriously degraded and transformed, while within the islandized habitat, species that are the focus of conservation efforts may not have sufficient range and may not be able to maintain healthy genetic variability.

As a consequence, many conservationists and preservationists have demanded that substantially larger portions of land be withheld as habitat reserves, and a network of biological corridors to connect continental reserves be established. While such efforts to combat islandization have considerable support in the <u>United States</u>, how precisely such a program would be instituted, especially across national boundaries, remains a matter of debate. International conservationists and preservationists say without a network of reserves a massive loss of biodiversity will result.

Bhutan Review 2016 Page 247 of 289 pages

The concept of islandization illustrates why conservation and preservation of wildlife and biodiversity must consider and adopt new, broader strategies. In the past, conservation and preservation efforts have been aimed at specific species, such as the spotted owl and grizzly bear in North America, the Bengal tiger in Southeast Asia, the panda in China, elephants in Africa. Instead, the new approach is to simultaneously protect many and varied species that inhabit the same ecosystem. This method, referred to as "bio-regional conservation," may more efficaciously generate longer-term and more far-reaching results precisely because it is aimed at preserving entire ecosystems, and all the living things within.

More About Biodiversity Issues:

This section is directly taken from the United Nations Environmental Program: "Biodiversity Assessment"

The Global Biodiversity Assessment, completed by 1500 scientists under the auspices of United Nations Environmental Program in 1995, updated what is known (or unknown) about global biological diversity at the ecosystem, species and genetic levels. The assessment was uncertain of the total number of species on Earth within an order of magnitude. Of its working figure of 13 million species, only 13 percent are scientifically described. Ecological community diversity is also poorly known, as is its relationship to biological diversity, and genetic diversity has been studied for only a small number of species. The effects of human activities on biodiversity have increased so greatly that the rate of species extinctions is rising to hundreds or thousands of times the background level. These losses are driven by increasing demands on species and their habitats, and by the failure of current market systems to value biodiversity adequately. The Assessment calls for urgent action to reverse these trends.

There has been a new recognition of the importance of protecting marine and aquatic biodiversity. The first quantitative estimates of species losses due to growing coral reef destruction predict that almost 200,000 species, or one in five presently contributing to coral reef biodiversity, could die out in the next 40 years if human pressures on reefs continue to increase.

Since Rio, many countries have improved their understanding of the status and importance of their biodiversity, particularly through biodiversity country studies such as those prepared under the auspices of UNEP/GEF. The <u>United Kingdom</u> identified 1250 species needing monitoring, of which 400 require action plans to ensure their survival. Protective measures for biodiversity, such as legislation to protect species, can prove effective. In the USA, almost 40 percent of the plants and animals protected under the Endangered Species Act are now stable or improving as a direct result of recovery efforts. Some African countries have joined efforts to protect threatened species through the 1994 Lusaka Agreement, and more highly migratory species are being protected by

Bhutan Review 2016 Page 248 of 289 pages

specialized cooperative agreements among range states under the Bonn Agreement.

There is an emerging realization that a major part of conservation of biological diversity must take place outside of protected areas and involve local communities. The extensive agricultural areas occupied by small farmers contain much biodiversity that is important for sustainable food production. Indigenous agricultural practices have been and continue to be important elements in the maintenance of biodiversity, but these are being displaced and lost. There is a new focus on the interrelationship between agrodiversity conservation and sustainable use and development practices in smallholder agriculture, with emphasis on use of farmers' knowledge and skills as a source of information for sustainable farming.

Perhaps even more important than the loss of biodiversity is the transformation of global biogeochemical cycles, the reduction in the total world biomass, and the decrease in the biological productivity of the planet. While quantitative measurements are not available, the eventual economic and social consequences may be so significant that the issue requires further attention.

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Bhutan Review 2016 Page 249 of 289 pages

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Online resources used generally in the Environmental Overview:

Environmental Protection Agency Global Warming Site. URL: http://www.epa.gov/globalwarming

Food and Agriculture Organization of United Nations: Forestry. URL: http://www.fao.org/forestry/site/sofo/en/

Global Warming Information Page. URL: http://globalwarming.org

United Nations Environmental Program. URL: http://www.unep.org/GEO/GEO Products/Assessment Reports/

United Nations Global Environmental Outlook. URL: http://www.unep.org/geo/geo4/media/

Note on Edition Dates:

The edition dates for textual resources are noted above because they were used to formulate the original content. We also have used online resources (cited above) to update coverage as needed.

Information Resources

Bhutan Review 2016 Page 250 of 289 pages

For more information about environmental concepts, CountryWatch recommends the following resources:

The United Nations Environmental Program Network (with country profiles)

The United Nations Environment Program on Climate Change

<a href="mailto://clim

The United Nations Environmental Program on Waters and Oceans

http://www.unep.ch/earthw/Pdepwat.htm

The United Nations Environmental Program on Forestry: "Forests in Flux"

FAO "State of the World's Forests"

World Resources Institute.

 <a href="http://www.wri.org/"

Harvard University Center for Health and the Global Environment

The University of Wisconsin Center for Sustainability and the Global Environment

http://sage.aos.wisc.edu/

International Environmental Agreements and Associations

Bhutan Review 2016 Page 251 of 289 pages

International Policy Development in Regard to Global Warming:

Introduction

Regardless of what the precise nature of the relationship between greenhouse gas emissions and global warming may be, it seems that there is some degree of a connection between the phenomena. Any substantial reductions in greenhouse gas emissions and global warming trends will likely involve systematic changes in industrial operations, the use of advanced energy sources and technologies, as well as global cooperation in implementing and regulating these transformations.

In this regard, the United Nations Framework Convention on Climate Change (UNFCCC) stipulated the following objectives:

- 1. To stabilize "greenhouse gas" concentrations within the atmosphere, in such a manner that would preclude hazardous anthropogenic intervention into the existing biosphere and ecosystems of the world. This stabilization process would facilitate the natural adaptation of ecosystems to changes in climate.
- 2. To ensure and enable sustainable development and food production on a global scale.

Following are two discussions regarding international policies on the environment, followed by listings of international accords.

Special Entry: The Kyoto Protocol

The UNFCCC was adopted at the Rio Earth Summit in 1992, and entered into force in 1994. Over 175 parties were official participants.

Meanwhile, however, many of the larger, more industrialized nations failed to reach the emissions' reduction targets, and many UNFCCC members agreed that the voluntary approach to reducing emissions had not been successful. As such, UNFCCC members reached a consensus that legally binding limits were necessitated, and agreed to discuss such a legal paradigm at a meeting in Kyoto, Japan in 1997. At that meeting, the UNFCCC forged the Kyoto Protocol. This concord is the first legally binding international agreement that places limits on emissions from industrialized countries. The major greenhouse gas emissions addressed in the Kyoto Protocol include carbon dioxide, nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and methane.

The provisions of the Kyoto Protocol stipulate that economically advanced nations must reduce their combined emissions of greenhouse gases, by approximately five percent from their 1990

Bhutan Review 2016 Page 252 of 289 pages

levels, before the 2008-2010 deadline. Countries with the highest carbon dioxide emissions, such as the <u>United States</u> (U.S.), many of the European Union (EU) countries, and <u>Japan</u>, are to reduce emissions by a scale of 6 to 8 percent. All economically advanced nations must show "demonstrable progress" by 2005. In contrast, no binding limits or timetable have been set on developing countries. Presumably, this distinction is due to the fact that most developing countries - with the obvious exceptions of <u>India</u> and <u>China</u> -- simply do not emit as many greenhouse gases as do more industrially advanced countries. Meanwhile, these countries are entrenched in the process of economic development.

Regardless of the aforementioned reasoning, there has been strong opposition against the asymmetrical treatment assigned to emissions limits among developed and developing countries. Although this distinction might be regarded as unfair in principle, associations such as the Alliance of Small Island States have been vocal in expressing how global warming -- a result of greenhouse gas emissions - has contributed to the rise in sea level, and thus deleteriously affected their very existence as island nation states. For this reason, some parties have suggested that economically advanced nations, upon returning to their 1990 levels, should be required to further reduce their greenhouse gas emissions by a deadline of 2005. In response, interested parties have observed that even if such reductions were undertaken by economically advanced nations, they would not be enough to completely control global warming. Indeed, a reduction in the rate of fossil fuel usage by developing nations would also be necessary to have substantial ameliorative effect on global warming. Indeed, a reduction in the rate of fossil fuel usage by developing nations would also be necessary to have substantial ameliorative effect on global warming.

As such, the Protocol established a "Clean Development Mechanism" which permits developed countries to invest in projects aimed at reducing emissions within developing countries in return for credit for the reductions. Ostensibly, the objective of this mechanism is to curtail emissions in developing countries without unduly penalizing them for their economic development. Under this model, the countries with more potential emissions credits could sell them to other signatories of the Kyoto Protocol, whose emissions are forecast to significantly rise in the next few years. Should this trading of emissions credits take place, it is estimated that the Kyoto Protocol's emissions targets could still be met.

In 1999, the International Energy Outlook projected that Eastern Europe, the former Soviet Union and Newly Independent States, as well as parts of Asia, are all expected to show a marked decrease in their level of energy-related carbon emissions in 2010. Nations with the highest emissions, specifically, the U.S., the EU and Japan, are anticipated to reduce their emissions by up to 8 percent by 2012. By 2000, however, the emissions targets were not on schedule for achievement. Indeed, the U.S. Department of Energy estimates forecast that by 2010, there will be a 34 percent increase in carbon emissions from the 1990 levels, in the absence of major shifts in policy, economic growth, energy prices, and consumer trends. Despite this assessment in the U.S., international support for the Kyoto Protocol remained strong, especially among European countries

Bhutan Review 2016 Page 253 of 289 pages

and island states, who view the pact as one step in the direction away from reliance on fossil fuels and other sources of greenhouse gases.

In 2001, U.S. President, George W. Bush, rejected his country's participation in the Kyoto Protocol, saying that the costs imposed on the global economic system, and especially, on the US, overshadowed the benefits of the Protocol. He also cited the unfair burden on developed nations to reduce emissions, as another primary reasons for withdrawal from the international pact, as well as insufficient evidence regarding the science of global warming. Faced with impassioned international disapproval for his position, the U.S. president stated that his administration remained interested in dealing with the matter of global warming, but would endorse alternative measures to combat the problem, such as voluntary initiatives limiting emissions. Critics of Bush's position, however, have noted that it was the failure of voluntary initiatives to reduce emissions following the Rio Summit that led to the establishment of the Kyoto Protocol in the first place.

In the wake of the Bush administration's decision, many participant countries resigned themselves to the reality that the goals of the Kyoto Protocol might not be achieved without U.S. involvement. Nevertheless, in Bonn, Germany, in July 2001, the remaining participant countries struck a political compromise on some of the key issues and sticking points, and planned to move forward with the Protocol, irrespective of the absence of the U.S. The key compromise points included the provision for countries to offset their targets with carbon sinks (these are areas of forest and farmland which can absorb carbon through the process of photosynthesis). Another compromise point within the broader Bonn Agreement was the reduction of emissions cuts of six gases from over 5 percent to a more achievable 2 percent. A third key change was the provision of funding for less wealthy countries to adopt more progressive technologies.

In late October and early November 2001, the UNFCC's 7th Conference of the Parties met in Marrakesh, Morocco, to finalize the measures needed to make the Kyoto Protocol operational. Although the UNFCC projected that ratification of the Protocol would make it legally binding within a year, many critics noted that the process had fallen short of implementing significant changes in policy that would be necessary to actually stop or even slow climate change. They also maintained that the absence of U.S. participation effectively rendered the Protocol into being a political exercise without any substance, either in terms of transnational policy or in terms of environmental concerns.

The adoption of the compromises ensconced within the Bonn Agreement had been intended to make the provisions of the Kyoto Protocol more palatable to the U.S. In this regard, it failed to achieve its objective as the Bush administration continued to eschew participation in the international accord. Still, however, the Bonn Agreement did manage to render a number of other positive outcomes. Specifically, in 2002, key countries, such as Russia, Japan and Canada agreed to ratify the protocol, bringing the number of signatories to 178. The decision by key countries to

Bhutan Review 2016 Page 254 of 289 pages

ratify the protocol was regarded as "the kiss of life" by observers.

By 2005, on the eve of a climate change conference in London, British Prime Minister Tony Blair was hoping to deal with the problems of climate change beyond the provisions set forth in the Kyoto Protocol. Acknowledging that the Kyoto Protocol could not work in its current form, Blair wanted to open the discussion for a new climate change plan.

Blair said that although most of the world had signed on to Kyoto, the protocol could not meet any of its practical goals of cutting greenhouse gas emissions without the participation of the United States, the world's largest polluter. He also noted that any new agreement would have to include India and China -- significant producers of greenhouse gas emissions, but exempt from Kyoto because they have been classified as developing countries. Still, he said that progress on dealing with climate change had been stymied by "a reluctance to face up to reality and the practical action needed to tackle problem."

Blair also touted the "huge opportunities" in technology and pointed toward the possibilities offered by wind, solar and nuclear power, along with fuel cell technology, eco-friendly biofuels, and carbon capture and storage which could generate low carbon power. Blair also asserted that his government was committed to achieving its domestic goal of reducing carbon dioxide emissions by 20 percent by 2010.

In the United States, President George W. Bush has said that global warming remained a debatable issue and despite conclusions reached by his own Environmental Protection Agency, he has not agreed with the conclusion that global warming and climate change are linked with human activities. Bush has also refused to ratify Kyoto on the basis of its economic costs.

Australia, an ally of the United States, has taken a similarly dim view of the Kyoto Protocol. Ahead of the November 2005 climate change meeting in Canada in which new goals for the protocol were to be discussed, Australia 's Environment Minister, Ian Campbell, said that negotiating new greenhouse gas emission levels for the Kyoto Protocol would be a waste of time. Campbell said, "There is a consensus that the caps, targets and timetables approach is flawed. If we spend the next five years arguing about that, we'll be fiddling and negotiating while Rome burns." Campbell, like the Bush administration, has also advocated a system of voluntary action in which industry takes up new technologies rather than as a result of compelling the reduction of emissions. But the Australian Conservation Foundation (ACF) has called on its government to ratify the Kyoto Protocol, to establish a system of emissions trading, and to set binding limits on emissions. Interestingly, although it did not sign on to Kyoto, Australia was expected to meet its emissions target by 2012 (an 8 percent increase in 1990 levels in keeping with the country's reliance on coal). But this success has nothing to do with new technologies and is due to state-based regulations on land clearing.

Note: The Kyoto Protocol calls for developed nations to cut greenhouse emissions by 5.2 percent

Bhutan Review 2016 Page 255 of 289 pages

of 1990 levels by 2012.

Special Entry: Climate Change Summit in Copenhagen (2009) --

In December 2009, the United Nations Climate Change Summit opened in the Danish capital of Copenhagen. The summit was scheduled to last from Dec. 7-18, 2009. Delegates from more than 190 countries were in attendance, and approximately 100 world leaders, including British Prime Minister Gordon Brown and <u>United States</u> President Barack Obama, were expected to participate. At issue was the matter of new reductions targets on greenhouse gas emissions by 2020.

Despite earlier fears that little concurrence would come from the conference, effectively pushing significant actions forward to a 2010 conference in Mexico City, negotiators were now reporting that the talks were productive and several key countries, such as South Africa, had pledged to reduce greenhouse gas emissions. The two main issues that could still lead to cleavages were questions of agreement between the industrialized countries and the developing countries of the world, as well as the overall effectiveness of proposals in seriously addressing the perils of climate change.

On Dec. 9, 2009, four countries -- the <u>United Kingdom</u>, <u>Australia</u>, <u>Mexico</u> and <u>Norway</u> -- presented a document outlining ideas for raising and managing billions of dollars, which would be intended to help vulnerable countries dealing with the perils of climate change. Described as a "green fund," the concept could potentially help small island states at risk because of the rise in sea level. <u>Bangladesh</u> identified itself as a potential recipient of an assistance fund, noting that as a country plagued by devastating floods, it was particularly hard-hit by climate change. The "green fund" would fall under the rubric of the United Nations Framework Convention on Climate Change, for which developed countries have been committed to quantifying their emission reduction targets, and also to providing financial and technical support to developing countries.

The <u>United Kingdom</u>, <u>Australia</u>, <u>Mexico</u> and <u>Norway</u> also called for the creation of a new legal treaty that would replace the Kyoto Protocol. This new treaty, which could go into force in 2012, would focus largely on the reduction of greenhouse gas emissions by 2020. But <u>Australia</u> went even further in saying that the successor treaty to the Kyoto Protocol, should be one with provisions covering all countries. Such a move would be a departure from the structure of the Kyoto Protocol, which contained emissions targets for industrialized countries due to the prevailing view that developed countries had a particular historic responsibility to be accountable for climate change. More recently, it has become apparent that substantial reductions in greenhouse gas emissions demanded by scientists would only come to pass with the participation also of significant developing nation states, such as <u>China</u> and <u>India</u>. Indeed, one of the most pressing critiques of the Kyoto Protocol was that it was a "paper tiger" that failed to address the impact of the actions of emerging economies like <u>China</u> and <u>India</u>, with its focus on the developed economies.

Bhutan Review 2016 Page 256 of 289 pages

Now, in 2009, <u>China</u> -- as the world's biggest greenhouse gas emitter -- was responding this dubious distinction by vocalizing its criticism of the current scenario and foregrounding its new commitments. Ahead of the Copenhagen summit, <u>China</u> had announced it would reduce the intensity of its carbon emissions per unit of its GDP in 2020 by 40 to 45 percent against 2005 levels. With that new commitment at hand, <u>China</u> was now accusing the <u>United States</u> and the European Union of shirking their own responsibilities by setting weak targets for greenhouse gas emissions cuts. Senior Chinese negotiator, Su Wei, characterized the goals of the world's second largest greenhouse gas emitter -- the <u>United States</u> -- as "not notable," and the European Union's target as "not enough." Su Wei also took issue with <u>Japan</u> for setting implausible preconditions.

On Dec. 11, 2009, China demanded that developed and wealthy countries in Copenhagen should help deliver a real agreement on climate change by delivering on their promises to reduce carbon emissions and provide financial support for developing countries to adapt to global warming. In so doing, China's Vice Foreign Minister He Yafei said his country was hoping that a "balanced outcome" would emerge from the discussions at the summit. Echoing the position of the Australian government, He Yafei spoke of a draft agreement as follows: "The final document we're going to adopt needs to be taking into account the needs and aspirations of all countries, particularly the most vulnerable ones."

China's Vice Foreign Minister emphasized the fact that climate change was "a matter of survival" for developing countries, and accordingly, such countries need wealthier and more developed countries to accentuate not only their pledges of emissions reduction targets, but also their financial commitments under the aforementioned United Nations Framework Convention on Climate Change. To that end, scientists and leaders of small island states in the Indian Ocean, the Pacific Ocean and the Caribbean Sea, have highlighted the existential threat posed by global warming and the concomitant rise in sea level.

China aside, attention was also on <u>India</u> -- another major player in the developing world and a country with an industrializing economy that was impacting the environment. At issue was the Indian government's decision to set a carbon intensity target, which would slow emissions growth by up to 25 percent by the 2020 deadline. This strong position was resisted by some elements in <u>India</u>, who argued that their country should not be taking such a strong position when developed wealthy countries were yet to show accountability for their previous commitments to reduce greenhouse gas emissions. The matter grew so heated that the members of the opposition stormed out of the parliament in protest as Indian Environment Minister Jairam Ramesh defended the policy. But the political pressure at home in <u>India</u> was leaving the Indian delegation in Copenhagen in a state of chaos as well. In fact, India's top environmental negotiator refused to travel to Copenhagen in protest of the government's newly-announced stance.

China and <u>India</u> were joined by <u>Brazil</u> and <u>South Africa</u> in the crafting of a draft document calling for a new global climate treaty to be completed by June 2010. Of concern has been the realization

Bhutan Review 2016 Page 257 of 289 pages

that there was insufficient time to find concurrence on a full legal treaty, which would leave countries only with a politically-binding text by the time the summit at Copenhagen closed. But Guyana's leader, President Bharrat Jagdeo, warned that the summit in <u>Denmark</u> would be classified as a failure unless a binding document was agreed upon instead of just political consensus. He urged his cohorts to act with purpose saying, "Never before have science, economics, geo-strategic self-interest and politics intersected in such a way on an issue that impacts everyone on the planet."

Likewise, <u>Tuvalu</u> demanded that legally binding agreements emerge from Copenhagen. Its proposal was supported by many of the vulnerable countries, from small island states and sub-Saharan Africa, all of whom warned of the catastrophic impact of climate change on their citizens. <u>Tuvalu</u> also called for more aggressive action, such as an amendment to the 1992 agreement, which would focus on sharp greenhouse gas emissions and the accepted rise in temperatures, due to the impact the rise in seas. The delegation from <u>Kiribati</u> joined the call by drawing attention to the fact that one village had to be abandoned due to waist-high water, and more such effects were likely to follow. Kiribati's Foreign Secretary, Tessie Lambourne, warned that the people of <u>Kiribati</u> could well be faced with no homeland in the future saying, "Nobody in this room would want to leave their homeland." But despite such impassioned pleas and irrespective of warnings from the Intergovernmental Panel on Climate Change that the rise in sea level from melting polar ice caps would deleteriously affect low-lying atolls such as such as <u>Tuvalu</u> and <u>Kiribati</u> in the Pacific, and the <u>Maldives</u> in the Indian Ocean, the oil-giant <u>Saudi Arabia</u> was able to block this move.

Meanwhile, within the developed countries, yet another power struggle was brewing. The European Union warned it would only agree to raise its target of 20 percent greenhouse gas emissions reductions to 30 percent if the <u>United States</u> demonstrated that it would do more to reduce its own emissions. It was unknown if such pressure would yield results. <u>United States</u> President Barack Obama offered a "provisional" 2020 target of 17 percent reductions, noting that he could not offer greater concessions at Copenhagen due to resistance within the <u>United States</u> Congress, which was already trying to pass a highly controversial "cap and trade" emissions legislation. However, should that emissions trading bill fail in the Senate, the <u>United States</u> Environment Protection Agency's declaration that greenhouse gases pose a danger to human health and the environment was expected to facilitate further regulations and limits on power plants and factories at the national level. These moves could potentially strengthen the Obama administration's offering at Copenhagen. As well, President Obama also signaled that he would be willing to consider the inclusion of international forestry credits.

Such moves indicated willingness by the Obama administration to play a more constructive role on the international environmental scene than its predecessor, the Bush administration. Indeed, ahead of his arrival at the Copenhagen summit, President Barack Obama's top environmental advisors promised to work on a substantial climate change agreement. To that end, <u>United States</u>

Bhutan Review 2016 Page 258 of 289 pages

Environmental Protection Agency Administrator Lisa Jackson said at a press conference, "We are seeking robust engagement with all of our partners around the world." But would this proengagement assertion yield actual results?

By Dec. 12, 2009, details related to a draft document prepared by Michael Zammit Cutajar, the head of the Ad-hoc Working Group on Long-Term Cooperative Action, were released at the Copenhagen climate conference. Included in the document were calls for countries to make major reductions in carbon emissions over the course of the next decade. According to the Washington Post, industrialized countries were called on to make cuts of between 25 percent and 40 percent below 1990 levels -- reductions that were far more draconian than the <u>United States</u> was likely to accept. As discussed above, President Obama had offered a provisional reduction target of 17 percent. The wide gap between the released draft and the United States' actual stated position suggested there was much more negotiating in the offing if a binding agreement could be forged, despite the Obama administration's claims that it was seeking greater engagement on this issue.

In other developments, the aforementioned call for financial support of developing countries to deal with the perils of climate change was partly answered by the European Union on Dec. 11, 2009. The European bloc pledged an amount of 2.4 billion euros (US\$3.5 billion) annually from 2010 to 2012. Environment Minister Andreas Carlgren of Sweden -- the country that holds the rotating presidency of the European Union at the time of the summit -- put his weight behind the notion of a "legally binding deal." Meanwhile, Yvo de Boer, a top United Nations climate change official, focused less on the essence of the agreement and more on tangible action and effects saying, "Copenhagen will only be a success if it delivers significant and immediate action that begins the day the conference ends."

The division between developed and developing countries in Copenhagen reached new heights on Dec. 14, 2009, when some of the poor and less developed countries launched a boycott at the summit. The move, which was spurred by African countries but backed by China and India, appeared to be geared toward redirecting attention and primary responsibility to the wealthier and more industrialized countries. The impasse was resolved after the wealthier and more industrialized countries offered assurances that they did not intend on shirking from their commitments to reducing greenhouse gases. As a result, the participating countries ceased the boycott.

Outside the actual summit, thousands of protestors had gathered to demand crucial global warming, leading to clashes between police and demonstrators elsewhere in the Danish capital city. There were reports of scattered violence across Copenhagen and more than 1,000 people were arrested.

Nevertheless, by the second week of the climate change summit, hopes of forging a strong deal were eroding as developed and developing nations remained deadlocked on sharing cuts in greenhouse gases, and particularly on the matters of financing and temperature goals. In a bid to

Bhutan Review 2016 Page 259 of 289 pages

shore up support for a new climate change, <u>United States</u> President Barack Obama joined other world leaders in Copenhagen. On Dec. 14, 2009, there was a standoff brewing between the <u>United States</u> and <u>China</u>. At issue was China's refusal to accept international monitoring of its expressed targets for reducing greenhouse gas emissions. The <u>United States</u> argued that China's opposition to verification could be a deal-breaker.

By the close of the summit, the difficult process eventually resulted in some consensus being cultivated. A draft text called for \$100 billion a year by 2020 to assist poor nations cope with climate change, while aiming to limit global warming to two degrees Celsius compared with preindustrial levels. The deal also included specific targets for developed countries to reduce greenhouse gas emissions, and called for reductions by developing countries as a share of their economies. Also included in the agreement was a mechanism to verify compliance. The details of the agreement were supported by President Barack Obama, Chinese Premier Wen Jiabao, Indian Prime Minister Manmohan Singh and Brazilian President Luiz Inacio Lula da Silva.

This draft would stand as an interim agreement, with a legally-binding international pact unlikely to materialize until 2010. In this way, the summit in Copenhagen failed to achieve its central objective, which was to negotiate a successor to the Kyoto Protocol on greenhouse gas emissions.

Editor's Note

In the background of these developments was the growing global consciousness related to global warming and climate change. Indeed, as the Copenhagen summit was ongoing, it was clear there was enormous concurrence on the significance of the stakes with an editorial on the matter of climate change being published in 56 newspapers in 45 countries. That editorial warned that without global action, climate change would "ravage our planet." Meanwhile, a global survey taken by Globescan showed that concern over global warming had exponentially increased from 1998 -- when only 20 percent of respondents believed it to be a serious problem -- to 64 percent in 2009. Such survey data, however, was generated ahead of the accusations by climate change skeptics that some climate scientists may have overstated the case for global warming, based on emails derived in an illicit manner from a British University.

Special Entry: Climate change talks in Doha in *Qatar* extend life of Kyoto Protocol (2012)

December 2012 saw climate talks ensue in the Qatari city of Doha as representatives from countries across the world gathered to discuss the fate of the Kyoto Protocol, which seeks to minimize greenhouse gas emissions. The summit yielded results with decisions made (1) to extend the Kyoto Protocol until 2020, and (2) for wealthier countries to compensate poorer countries for the losses and damage incurred as a result of climate change.

Bhutan Review 2016 Page 260 of 289 pages

In regards to the second matter, Malia Talakai of Nauru, a leading negotiator for the Alliance of Small Island States, explained the necessity of the compensation package as follows: "We are trying to say that if you pollute you must help us."

This measure was being dubbed the "Loss and Damage" mechanism, and was being linked with <u>United States</u> President Barack Obama's request for \$60 billion from Congress to deal with the devastation caused by Hurricane Sandy months before. The sight of a hurricane bearing down on the northern Atlantic seaboard, along with the reality of the scope of reconstruction, appeared to have illustrated the economic costs of climate change -- not so much as a distant environmental issue -- but as a danger to the quotidian lives of people. Still, there was blame to be placed on the <u>United States</u> and European countries -- some of world's largest emitters -- for failing to do more to reduce emissions.

To that latter end, there was in fact little progress made on the central issue of reducing greenhouse gas emissions. Had those emissions been reduced, there would have been less of a need to financially deal with the devastation caused by climate change. One interpretation was that the global community was accepting the fact that industrialization was contributing to global warming, which had deleterious effects on the polar ice caps and concomitantly on the rise of sea level, with devastating effects for small island nations. Thus, wealthier countries were willing to pay around \$10 billion a year through 2020, effectively in "damages," to the poor countries that could be viewed as the "collateral damage" of industrial progress. But damages today could potentially be destruction tomorrow, leaving in place the existential challenges and burdens to be born by some of the world's smallest and least wealthy island countries.

Perhaps not surprisingly, the representative for the small island nation states at the Doha summit responded with ire, characterizing the lack of progress on reducing emissions as follows: "We see the package before us as deeply deficient in mitigation (carbon cuts) and finance. It's likely to lock us on the trajectory to a 3,4,5C rise in global temperatures, even though we agreed to keep the global average temperature rise of 1.5C to ensure survival of all islands. There is no new finance (for adapting to climate change and getting clean energy) -- only promises that something might materialize in the future. Those who are obstructive need to talk not about how their people will live, but whether our people will live."

Indeed, in most small island countries not just in the Pacific, but also the Caribbean and Indian Ocean, ecological concerns and the climate crisis have been dominant themes with dire life and death consequences looming in the background for their people. Small island nations in these region are already at risk from the rise of sea-level, tropical cyclones, floods. But their very livelihoods of fishing and subsistence farming were also at risk as a result of ecological and environmental changes. Increasingly high storm surges can wipe out entire villages and contaminate water supplies. Accordingly, the very existence of island nations, such as Kiribati and Tuvalu, are at severe risk of being obliterated from the map. Yet even with the existential threat of being wiped

Bhutan Review 2016 Page 261 of 289 pages

off the map in the offing, the international community has been either slow or restrictive in its efforts to deal with global warming, climate change, economic and ecological damage, as well as the emerging global challenge of environmental refugees.

A 2012 report from the United Nations Environment Program (UNEP) and the Pacific Regional Environment Program underlined the concerns of small island nations and their people as it concluded that the livelihoods of approximately 10 million people in Pacific island communities were increasingly vulnerable to climate change. In fact, low-lying islands in that region would likely confront losses of up to 18 percent of gross domestic product due to climate change, according to the report. The report covers 21 countries and territories, including Fiji, Kiribati, Samoa and Tonga, and recommended environmental legislation intended to deal with the climate crisis facing the small island countries particularly. As noted by David Sheppard, the director general of the Pacific Regional Environment Program that co-sponsored this study: "The findings... emphasize the need more than ever to raise the bar through collective actions that address the region's environmental needs at all levels."

Regardless of the failures of the summit in <u>Qatar</u> (discussed above), the meeting did facilitate a process starting in 2015, which would bind both wealthy and poor countries together in the mission of forging a new binding treaty that would replace the Kyoto Protocol and tackle the central causes of climate change.

For more information on the threats faced in small island nations by climate change and the measures being undertaken to lobby for international action, please see the Alliance for Small Island States available online at the URL: http://aosis.org/

Special Report

COP 21 summit in Paris ends with historic agreement to tackle climate change; rare international consensus formed on environmental crisis facing the planet (2015) --

In mid-December 2015, the highly-anticipated United Nations climate conference of parties (COP) in Paris, <u>France</u>, ended with a historic agreement. In fact, it would very likely be understood as the most significant international agreement signed by all the recognized countries of the world since the Cold War. Accordingly, the Paris Agreement was being distinguished as the first multilateral pact that would compel all countries across the world to cut its carbon emissions -- one of the major causes of increasing greenhouse gas emissions, which contribute to global warming, and its deleterious effects ranging from the dangerous rise in sea level to catastrophic climate change.

The accord, which was dubbed to be the "Paris Agreement," was the work of rigorous diplomacy

Bhutan Review 2016 Page 262 of 289 pages

and fervent environmental advocacy, and it aimed to address the climate change crisis facing the planet. As many as 195 countries were represented in the negotiations that led to the landmark climate deal. Indeed, it was only after weeks of passionate debate that international concurrence was reached in addressing the environmental challenges confronting the world, with particular attention to moving beyond fossil fuels and reducing greenhouse gas emissions.

The success of the COP 21 summit in Paris and the emergence of the landmark Paris Agreement was, to some extent, attributed to the efforts of France's Foreign Minister Laurent Fabius who presided over the negotiations. The French foreign minister's experience and credentials as a seasoned diplomat and respected statesman paid dividends. He skillfully guided the delegates from almost 200 countries and interest groups along the negotiations process, with ostensibly productive results and a reasonably robust deal to show for it.

On Dec. 12, 2015, French Foreign Minister Fabius officially adopted the agreement, declaring: "I now invite the COP to adopt the decision entitled Paris Agreement outlined in the document. Looking out to the room I see that the reaction is positive, I see no objections. The Paris agreement is adopted." Once Foreign Minister Fabius' gavel was struck, symbolically inaugurating the Paris Agreement into force, the COP delegate rushed to their feet with loud and bouyant cheers as well as thunderous applause.

In general, the Paris Agreement was being hailed as a victory for environmental activists and a triumph for international diplomats, while at the same time being understood as simply an initial -- and imperfect -- move in the direction of a sustainable future. China's chief negotiator, Xie Zhenhua, issued this message, saying that while the accord was not ideal, it should "not prevent us from marching historical steps forward."

United States President Barack Obama lauded the deal as both "ambitious" and "historic," and the work of strenuous multilateral negotiations as he declared, "Together, we've shown what's possible when the world stands as one." The <u>United States</u> leader acknowledged that the accord was not "perfect," but he reminded the critics that it was "the best chance to save the one planet we have."

Former <u>United States</u> Vice President Al Gore, one of the world's most well known environmental advocates, issued a lengthy statement on the accompishments ensconced in the Paris Agreement. He highlighted the fact that the Paris Agreement was a first step towards a future with a reduced carbon footprint on Planet Earth as he said, "The components of this agreement -- including a strong review mechanism to enhance existing commitments and a long-term goal to eliminate global-warming pollution this century -- are essential to unlocking the necessary investments in our future. No agreement is perfect, and this one must be strengthened over time, but groups across every sector of society will now begin to reduce dangerous carbon pollution through the framework of this agreement."

Bhutan Review 2016 Page 263 of 289 pages

The central provisions of the Paris Agreement included the following items:

- Greenhouse gas emissions should peak as quickly as possible, with a move towards balancing energy sources, and ultimately the decrease of greenhouse gases in the second half of this century
- Global temperature increase would be limited to 1.5 degrees Centigrade above pre-industrial levels and would be held "well below" the two degrees Centigrade threshold
- Progress on these goals would be reviewed every five years beginning in 2020 with new greenhouse gas reduction targets issued every five years
- \$100 billion would be expended each year in climate finance for developing countries to move forward with green technologies, with further climate financing to be advanced in the years beyond

It should be noted that there both legally binding and voluntary elements contained within the Paris Agreement. Specifically, the submission of an emissions reduction target and the regular review of that goal would be legally mandatory for all countries. Stated differently, there would be a system in place by which experts would be able to track the carbon-cutting progress of each country. At the same time, the specific targets to be set by countries would be determined at the discretion of the countries, and would not be binding. While there was some criticism over this non-binding element, the fact of the matter was that the imposition of emissions targets was believed to be a major factor in the failure of climate change talks in Copenhagen, Denmark, in 2009.

In 2015, the talks faced challenges as several countries, such as <u>China</u> and <u>India</u>, objected to conditions that would stymie economic and development. In order to avoid that kind of landmine, a system Intended Nationally Determined Contributions (INDCs) was developed and formed the basis of the accord. As such, the Paris Agreement would, in fact, facilitate economic growth and development, as well as technological progress, but with the goal of long-term ecological sustainability based on low carbon sources. In fact, the agreement heralded as "the beginning of the end of the fossil fuel era." As noted by Nick Mabey, the head of the climate diplomacy organization E3G, said, "Paris means governments will go further and faster to tackle climate change than ever before. The transition to a low carbon economy is now unstoppable, ensuring the end of the fossil fuel age."

A particular sticking point in the agreement was the \$100 billion earmarked for climate financing for developing countries to transition from traditional fossil fuels to green energy technologies and a low carbon future. In 2014, a report by the International Energy Agency indicated that the cost of that transition would actually be around \$44 trillion by the mid-century -- an amount that would render the \$100 billion being promised to be a drop in the proverbial bucket. However, the general expectation was that the Republican-controlled Senate in the <u>United States</u>, which would have to ratify the deal in that country, was not interested in contributing significant funds for the cause of climate change.

Bhutan Review 2016 Page 264 of 289 pages

A key strength of the Paris Agreement was the ubiquitous application of measures to all countries. Of note was the frequently utilized concept of "flexibility" with regard to the Paris Agreement. Specifically, the varying capacities of the various countries in meeting their obligations would be anticipated and accorded flexibility. This aspect presented something of a departure from the 1997 Kyoto Protocol, which drew a sharp distinction between developed and developing countries, and mandated a different set of obligations for those categories of countries. Thus, under Kyoto, China and India were not held to the same standards as the United States and European countries. In the Paris Agreement, there would be commitments from all countries across the globe.

Another notable strength of the Paris Agreement was the fact that the countries of the world were finally able to reach consensus on the vital necessity to limit global temperature increases to 1.5 degrees Centrigrade. Ahead of the global consensus on the deal, and as controversy continued to surface over the targeted global temperature limits, the leaders of island countries were sounding the alarm about the melting of the Polar ice caps and the associated rise in seal level. Prime Minister Enele Sopoaga of <u>Tuvalu</u> issued this dismal reminder: "Tuvalu's future ... is already bleak and any further temperature increase will spell the total demise of <u>Tuvalu</u>. No leader in this room carries such a level of worry and responsibility. Just imagine you are in my shoes, what would you do?" It was thus something of a victory for environmental advocates that the countries of the world could find ensensus on the lower number -- 1.5 degrees rather than 2 degrees.

A significant weak point with regard to the Paris deal was a "loss and damage" provision, which anticipates that even with all the new undertakings intended to reduce greenhouse gas emissions and move to a low carbon future, there would nonetheless be unavoidable climate change consequences. Those consequences ranged from the loss of arable land for farmers as well as soil erosion and contamination of potable water by sea water, to the decimation of territory in coastal zones and on small islands, due to the rise in sea level, with entire small island countries being rendered entirely uninhabitable. The reality was that peoples' homes across the world would be destroyed along with their way of life.

With that latter catastrophic effect being a clear and present danger for small island countries, the Association of Small Island States (AOSIS) demanded that the developed world acknowledge its responsibility for this irreversible damage. Despite the fact that greenhouse gas emissions and the ensuing plague of global warming was, indeed, the consequence of development in the West (the United States and Europe) and the large power house countries, such as Russia, China and India, there was no appetite by those countries to sign on to unlimited liability. Under the Paris Agreement, there was a call for research on insurance mechanisms that would address loss and damage issues, with recommendations to come in the future.

The call for research was being regarded as an evasion of sorts and constituted the weakest aspect of the Paris Agreement. Not surprisingly, a coalition of small island nations demanded a "Marshall

Bhutan Review 2016 Page 265 of 289 pages

Plan" for the Pacific. Borrowing the term "Marshall Plan" from the post-World War II reconstruction effort, the coalition of Pacific island nation, which included Kiribati, Tuvalu, Fiji, and the Marshall Islands, called for an initiative that would include investment in renewable energy and shoreline protection, cultural preservation, economic assistance for economies in transition, and a plan for migration and resettlement for these countries as they confront the catastrophic effects of the melting of the Polar ice caps and the concomitant rise in sea level. The precise contours of the initiative remained unknown, unspecified, and a mere exercise in theory at the time of writing. Yet such an initiative would, at some point, have to be addressed, given the realities of climate change and the slow motion calamity unfolding each day for low-lying island nations across the world.

As noted by Vice President Greg Stone of Conservation International, who also functions as an adviser to the government of Kiribati, "Imagine living in a place where you know it's going to go away someday, but you don't know what day that wave's going to come over and wash your home away." He added, "It's a disaster we know is going to happen." Meanwhile, the intervening years promised to be filled with hardship for small island nations, such as Kiribati. Stone explained, "For every inch of sea-level rise, these islands lose 10 feet of their freshwater table to saltwater intrusion," Stone explained. "So it's not just about the day the water finally goes over the island; it's also about the day that there's just not enough water left and everyone has to move off the island." Presaging the future for island nations that could face submersion, Stone said, "If you look ahead 50 years, a country like Kiribati could become the first aqueous nation. possibility of migration. That is, they own this big patch of ocean, and they administer it from elsewhere."

Foreign Minister Minister Tony Debrum of the Marshall Islands emerged as the champion advocating on behalf of small island nation states and a loose coalition of concerned countries from the Pacific to the Caribbean, but with support from the United States. He addressed the comprehensive concerns of small island nations regarding the weaknesses of the deal, while simultaneously making clear that the Paris Agreement signified hope for the countries most at risk. In a formal statement, Debrum declared: "We have made history today. Emissions targets are still way off track, but this agreement has the tools to ramp up ambition, and brings a spirit of hope that we can rise to this challenge. I can go back home to my people and say we now have a pathway to survival." Debrum highlighted the imperatives of Pacific island nations, saying, "Our High Ambition Coalition was the lightning rod we needed to lift our sights and expectations for a strong agreement here in Paris. We were joined by countries representing more than half the world. We said loud and clear that a bare-bones, minimalist agreement would not fly. We instead demanded an agreement to mark a turning point in history, and the beginning of our journey to the post-carbon era."

Debrum of the <u>Marshall Islands</u> espoused the quintessential synopsis of the accord and its effects for those most likely to be affected by climate change as he noted, "Climate change won't stop

Bhutan Review 2016 Page 266 of 289 pages

overnight, and my country is not out of the firing line just yet, but today we all feel a little safer."

Editor's Entry on **Environmental Policy**:

The low-lying Pacific island nations of the world, including <u>Kiribati</u>, <u>Tuvalu</u>, the <u>Marshall Islands</u>, <u>Fiji</u>, among others, are vulnerable to the threats posed by global warming and cimate change, derived from carbon emissions, and resulting in the rise in sea level. Other island nations in the Caribbean, as well as poor countries with coastal zones, were also at particular risk of suffering the deleterious effects of climate change.

Political policy in these countries are often connected to ecological issues, which have over time morphed into an existential crisis of sorts. Indeed, ecological concerns and the climate crisis have also been dominant themes with life and death consequences for the people of island nations in the Pacific. Indeed, the very livelihoods of fishing and subsistence farming remain at risk as a result of ecological and environmental changes. Yet even so, these countries are threatened by increasingly high storm surges, which could wipe out entire villages and contaminate water supplies. Moreover, because these are low lying island nations, the sustained rise in sea level can potentially lead to the terrain of these countries being unihabitable at best, and submerged at worst. Stated in plain terms, these countries are at severe risk of being obliterated from the map and their plight illuminates the emerging global challenge of environmental refugees. In these manifold senses, climate change is the existential crisis of the contemporary era.

Since the time of the 1997 Kyoto Protocol, there have been efforts aimed at extending the life of that agreement, with an eye on minimizing greenhouse gas emissions, and thus minimizing the effects of climate change. Those endeavors have largely ended in failure, as exemplified by the unsuccessful Copenhagen talks in 2009 and the fruitless Doha talks in 2012 respectively. The success of the COP 21 talks in France, with the adoption of the landmark Paris Agreement in 2015, was regarded as the first glimmer of hope. Not only did the Paris Agreement signify the triumph of international diplomacy and global consensus, but it also marked the start of the end of the fossil fuel era, with the path forward toward a low carbon future reliant on greener technologies. Most crucially, the Paris Agreement stood as the first significant response in recent times to the central challenge of climate change and its quotidian effects on the lives of real human beings across the world.

1. Major International Environmental Accords:

General Environmental Concerns

Convention on Environmental Impact Assessment in a Transboundary Context, Espoo, 1991.

Bhutan Review 2016 Page 267 of 289 pages

Accords Regarding Atmosphere

Annex 16, vol. II (Environmental Protection: Aircraft Engine Emissions) to the 1044 Chicago Convention on International Civil Aviation, Montreal, 1981

Convention on Long-Range Transboundary Air Pollution (LRTAP), Geneva, 1079

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Accords Regarding Hazardous Substances

Convention on the Ban of the Import into Africa and the Control of Transboundary Movements and Management of Hazardous Wastes within Africa, Bamako, 1991

Convention on Civil Liability for Damage Caused during Carriage of Dangerous Goods by Road, Rail and Inland Navigation Vessels (CRTD), Geneva, 1989

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Convention on the Transboundary Effects of Industrial Accidents, Helsinki, 1992

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European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR), Geneva 1957

FAO International Code of Conduct on the Distribution and Use of Pesticides, Rome, 1985

2. Major International Marine Accords:

Global Conventions

Bhutan Review 2016 Page 268 of 289 pages

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International Convention for the Prevention of Pollution from Ships, 1973, as modified by Protocol of 1978 relation thereto (MARPOL 73/78), London, 1973 and 1978

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Bhutan Review 2016 Page 269 of 289 pages

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Convention on the Protection of the Black Sea against Pollution, Bucharest, 1992

Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region, Cartagena de Indias, 1983

Convention for the Protection, Management, and Development of the Marine and Coastal Environment of the Eastern African Region, Nairobi, 1985

Kuwait Regional Convention for Co-operation on the Protection of the Marine Environment from Pollution, <u>Kuwait</u>, 1978

Convention for the Protection and Development of the Marine Environment and Coastal Region of the Mediterranean Sea (Barcelona Convention), Barcelona, 1976

Regional Convention for the Conservation of the Red Sea and Gulf of Aden Environment, Jeddah, 1982

Convention for the Protection of the Natural Resources and Environment of the South Pacific Region, Noumea, 1986

Convention for the Protection of the Marine Environment and Coastal Area of the South-East Pacific, Lima, 1981

Convention for Co-operation in the Protection and Development of the Marine and Coastal Environment of the West and Central African Region, Abidjan, 1981

3. Major Conventions Regarding Living Resources:

Marine Living Resources

Convention on the Conservation of Antarctic Marine Living Resources (CCAMLR), Canberra, 1980

International Convention for the Conservation of Atlantic Tunas (ICCAT), Rio de Janeiro, 1966

International Convention for the Regulation of Whaling (ICRW), Washington, 1946

Bhutan Review 2016 Page 270 of 289 pages

Nature Conservation and Terrestrial Living Resources

Antarctic Treaty, Washington, D.C., 1959

Convention Concerning the Protection of the World Cultural and Natural Heritage (World Heritage Convention), Paris, 1972

Convention on Biological Diversity (CBD), Nairobi, 1992

Convention on the Conservation of Migratory Species of Wild Animals (CMS), Bonn, 1979

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Convention to Combat Desertification (CCD), Paris 1994

FAO International Undertaking on Plant Genetic Resources, Rome, 1983

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Freshwater Resources

Convention on the Protection and Use of Transboundary Watercourses and International Lakes, Helsinki, 1992

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Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency (Assistance Convention), Vienna, 1986

Convention on Early Notification of a Nuclear Accident (Notification Convention), Vienna, 1986

Convention on Nuclear Safety, Vienna, 1994

Vienna Convention on Civil Liability for Nuclear Damage, Vienna, 1963

Bhutan Review 2016 Page 271 of 289 pages

5. Major Intergovernmental Organizations

Commission on Sustainable Development (CSD)

European Union (EU): Environment

Food and Agriculture Organization (FAO)

Global Environment Facility (GEF)

International Atomic Energy Agency (IAEA)

International Council for the Exploration of the Sea (ICES)

International Fund for Agricultural Development (IFAD)

International Labour Organization (ILO)

International Maritime Organization (IMO)

International Monetary Fund (IMF)

International Oil Pollution Compensation Funds (IOPC Funds)

Organization for Economic Co-operation and Development (OECD), Environment Policy Committee (EPOC)

United Nations Children's Fund (UNICEF)

United Nations Development Programme (UNDP)

United Nations Educational, Scientific, and Cultural Organization (UNESCO)

United Nations Environment Programme (UNEP)

United Nations Industrial Development Organization (UNIDO)

United Nations Population Fund (UNFPA)

Bhutan Review 2016 Page 272 of 289 pages

World Bank

World Food Programme (WFP)

World Health Organization (WHO)

World Meteorological Organization (WMO)

World Trade Organization (WTO)

6. Major Non-Governmental Organizations

Atmosphere Action Network East Asia (AANEA)

Climate Action Network (CAN)

Consumers International (CI)

Earth Council

Earthwatch Institute

Environmental Liaison Centre International (ELCI)

European Environmental Bureau (EEB)

Forest Stewardship Council (FSC)

Friends of the Earth International (FoEI)

Greenpeace International

International Chamber of Commerce (ICC)

International Confederation of Free Trade Unions (ICFTU)

International Planned Parenthood Federation (IPPF)

International Solar Energy Society (ISES)

Bhutan Review 2016 Page 273 of 289 pages

IUCN-The World Conservation Union

Pesticide Action Network (PAN)

Sierra Club

Society for International Development (SID)

Third World Network (TWN)

Water Environment Federation (WEF)

Women's Environment and Development Organization (WEDO)

World Business Council for Sustainable Development (WBCSD)

World Federalist Movement (WFM)

World Resources Institute (WRI)

World Wide Fund For Nature (WWF)

7. Other Networking Instruments

Arab Network for Environment and Development (RAED)

Global Legislators for a Balanced Environment (GLOBE)

Regional Environmental Center for Central and Eastern Europe (REC)

United Nations Non-Governmental Liaison Service (UN-NGLS)

Bhutan Review 2016 Page 274 of 289 pages

Bhutan Review 2016 Page 275 of 289 pages

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Bhutan Review 2016 Page 276 of 289 pages

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Exceptions to this method were used for:

- Bosnia-Herzegovina
- Nauru
- Cuba
- Palau
- · Holy See
- San Marino
- Korea, North
- Serbia & Montenegro
- Liberia
- Somalia
- Liechtenstein
- Tonga
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Since 1990, the United Nations Development Programme, in concert with organizations across the globe, has produced the <u>Human Development Index</u> (or HDI). According to the UNDP, the index measures average achievement in basic human development in one simple composite index, and produces from this index a ranking of countries. The HDI is a composite of three basic components of human development: longevity, knowledge and standard of living. Longevity is measured by life expectancy. Knowledge is measured by combination of adult literacy and mean

Bhutan Review 2016 Page 284 of 289 pages

years of schooling. Standard of living is measured by purchasing power, based on real GDP per capita (in constant US\$) adjusted for differences in international living costs (or, purchasing power parity, PPP). While the index uses these social indicators to measure national performance with regard to human welfare and development, not all countries provide the same level of information for each component needed to compute the index; therefore, as in any composite indicator, the final index is predicated on projections, predictions and weighting schemes. The index is a static measure, and thus, an incomplete measure of human welfare. In fact, the UNDP says itself the concept of human development focuses on the ends rather than the means of development and progress, examining in this manner, the average condition of all people in a given country.

Specifically, the index is calculated by determining the maximum and minimum for each of the three components (as listed above) and then measuring where each country stands in relation to these scales-expressed as a value between 0 and 1. For example, the minimum adult literary rate is zero percent, the maximum is 100 percent, and the reading skills component of knowledge in the HDI for a country where the literacy rate is 75 percent would be 0.75. The scores of all indicators are then averaged into the overall index.

For a more extensive examination of human development, as well as the ranking tables for each participating country, please visit: http://www.undp.org

Note on History sections

In some CountryWatch Country Reviews, open source content from the State Department Background Notes and Country Guides have been used.

Environmental Overview

Environmental Profiles: A Global Guide to Projects and People. 1993. Linda Sobel Katz, Sarah Orrick, and Robert Honig. New York: Garland Publishing.

The Environment Encyclopedia and Directory, 2nd Edition. 1998. London: Europa.

Environmental Protection Agency Global Warming Site. URL: http://www.epa.gov/globalwarming

Food and Agriculture Organization of United Nations: Forestry. URL: http://www.fao.org/forestry/site/sofo/en/

Global Warming Information Page. URL: http://globalwarming.org

Introduction to Global Environmental Issues, 2nd Edition. 1997. Kevin Pickering and Lewis Owen.

Bhutan Review 2016 Page 285 of 289 pages

London: Routledge.

Trends: Compendium of Data on Global Change. URL: http://cdiac.esd.ornl.gov/trends/emis/em_cont.htm

United Nations Environmental Program. URL: http://www.unep.org/GEO/GEO/Products/Assessment Reports/

United Nations Global Environmental Outlook. URL: http://www.unep.org/geo/geo4/media/

United States Department of Energy, Country Analysis Briefs. URL: http://www.eia.doe.gov/emeu/cabs/contents.html

World Climate Data Online. URL: http://www.worldclimate.com

World Directory of Country Environmental Studies. 1996. The World Resource Institute.

World Factbook. US Central Intelligence Agency. Washington, D.C.: Printing and Photography Group.

1998-1999 World Resources Guide to the Global Environment by the World Resources Institute. May, 1998.

1998/1999 Yearbook of International Cooperation on Environment and Development. 1998. London: Earthscan Publications.

Note on Edition Dates:

The earlier edition dates are noted above because they were used to formulate the original country reviews and serve as the baseline for some of the information covered. Later editions have been used in some cases, and are cited as such, while other more recent online resources (cited above) contain recent and ever-updated data sets used for research.

Other Sources:

General information has also been used in the compilation of this review, with the courtesy of governmental agencies from this country.

News Services:

Bhutan Review 2016 Page 286 of 289 pages

CANA Daily Bulletin. Caribbean Media Agency Ltd., St. Michael, <u>Barbados</u>.

Central and Eastern Africa Report, United Nations Office for the Coordination of Humanitarian Affairs - Integrated Regional Information Network for Central and Eastern Africa.

Daily News, Panafrican News Agency. Dakar, Senegal.

PACNEWS, Pacific Islands Broadcasting Association. Suva, Fiji.

Radio Free Europe/Radio Liberty. Washington D.C. USA.

Reuters News. Thomson Reuters. New York, New York. USA.

Southern Africa Report, United Nations Office for the Coordination of Humanitarian Affairs - Integrated Regional Information Network for Southern Africa.

Voice of America, English Service. Washington D.C.

West Africa Report, United Nations Office for the Coordination of Humanitarian Affairs - Integrated Regional Information Network for West Africa. 1998-1999

<u>Note:</u> Some or all these news services have been used to research various sections of this Country Review.

USING COUNTRYWATCH.COM AS AN ELECTRONIC SOURCE:

MLA STYLE OF CITATION

Commentary

For items in a "Works Cited" list, Country Watch.com suggests that users follow recommended patterns for indentation given in the *MLA Handbook*, 4th edition.

Individual Works

Basic form, using an Internet protocol:

Bhutan Review 2016 Page 287 of 289 pages

Author/editor. *Title of Print Version of Work*. Edition statement (if given). Publication information (Place of publication: publisher, date), if given. *Title of Electronic Work*. Medium. Available Protocol (if applicable):Site/Path/File. Access date.

Examples:

Youngblood-Coleman, Denise. *Country Review: France*. 2003. Houston, Texas: CountryWatch Publications, 2003. *Country Review: France*. Online. Available URL: http://www.countrywatch.com/cw_country.asp?vCOUNTRY=61 October, 12, 2003.

Note:

This is the citation format used when the print version is not used in the reference.

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Author/editor. "Part title." *Title of Print Version of Work*. Edition statement (if given). Publication information (Place of publication: publisher, date), if given. *Title of Electronic Work*. Medium. AvailableProtocol (if applicable): Site/Path/File. Access date.

Examples:

Youngblood-Coleman, Denise. "People." *CountryWatch.com: France*. 2003. Houston, Texas: CountryWatch Publications, 2003. *CountryWatch.com: France*. Online. Available URL: http://www.countrywatch.com/cw_topic.asp?
vCOUNTRY=61&SECTION=SOCIAL&TOPIC=CLPEO&TYPE=TEXT. October 12, 2003.

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Bhutan Review 2016 Page 288 of 289 pages

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