

Government of India  
Ministry of Environment & Forests  
(EI Division)

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**SIKKIM STATE ENVIS CENTRE**  
**On Status of Environment and Its Related Issues**  
**Forest, Environment and Wildlife Management Department**  
**Government of Sikkim**

**Status of data entry in ISBEID: (For State/ UT ENVIS Centres): updated on 21-Jan-2016**

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
I. Adminis- trative	1. General	Name				
		No. of Districts (with name)			✓	
		No. of Mandals/ Tahsils/ Taluks (with name)	✓			
		No. of Blocks (with name)	✓			
		No. of Municipalities (with name)	✓			
		No. of Panchayats	✓			
		No. of Cities with million plus population (with name)	✓			
		No. of Tribal Settlements				
		Elevation above mean sea level (Maximum)	✓		✓	
		Elevation above mean sea level (Minimum)	✓		✓	
		Total geographical area	✓		✓	
		GDP of the state (Sector wise)				
		- Primary	2000, 2005- 2012			
		- Secondary	2000,200 5- 2012			
	- Tertiary	2000,200 5- 2012				
	2. Socio Economics	No. of BPL household in millions	2006		2006	
		% of Household below poverty line	2006		2006	
	3. Climate	Average mean monthly temperature (Max.)		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
		Average mean monthly temperature (Min.)		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
		Total annual Rainfall		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
Relative Humidity					2006 (E)	

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
	4. Demography	Population (for last 4 decades - 1961 - 71 - 81- 91- 2001)				
		Total Population	1961-2011		1991-2011	
		Males Population	1961-2011		1991-2011	
		Females Population	1961-2011		1991-2011	
		Density	1961-2011		1991-2011	
		Area in	1961 - 2011		1981-2011	
		No. of females/thousand males (sex ratio)	1961-2011		1991-2011	
		% of Literacy	1961-2011		1981-2011	
		% of population attending school	2001			
		Crude Birth Rate (Nos. per 1000 population)	2001, 2011			
		Crude Death Rate (Nos. per 1000 population)	2001, 2011			
II. Infra-structure	1. Housing	Permanent	2001, 2005, 2011		2001, 2005, 2011	
		Semi- Permanent	2001, 2005, 2011		2001, 2005, 2011	
		Temporary	2001, 2005, 2011		2001, 2005, 2011	
		Average Household Size (Persons per HH)	2005		2005	
	2. Medical and Health Service	No. of Government Hospitals	1990-2015		1990-2015	
		No. of Registered private hospitals/ nursing homes	1995-2015		1995-2015	
	3. Transport	No. of Railway Stations				
		Length of Railway Lines				
		Length of National Highways	1998-2015			
		Length of State Highways	1990-2015		1990-2015	
		Length of other roads	1998-2001			
		No. of Domestic Airports				
		No. of international Airports				
III. Energy	1. Non-Renewable	Coal power generation				
		Installed Capacity				
		Gas Power generation				
		Installed Capacity				
		Oil based power generation				
		Installed Capacity				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Atomic power generation				
		Installed Capacity				
		Power from National Grid	2003-2013			
		Installed Capacity	2003-2013			
	2. Renewable	Hydel power generation	1992, 1995, 2000-2012			
		Installed Capacity	1992, 1995, 2000-2012			
		Windmill power generation				
		Installed Capacity				
		Solar photovoltaic power generation				
		Installed Capacity				
		Biogas power generation				
		Installed Capacity				
		Other biomass power generation				
	Installed Capacity					
	3. Electricity Consumption	Industrial and Commercial	2008-2014			
		Agriculture	1990-2014			
		Domestic	2008-2014			
		Others	1998-2012			
	4. Energy Consumption	LPG	2010-2013			
		Other Petroleum Products				
Coal						
Natural Gas						
Other						
IV. Agriculture	1. Agriculture Area Classification	Total agricultural area				
		Area under non-agriculture use	2001-2013			
		Barren and uncultivable land	1996-2012			
		Permanent pasture / grazing land	1996-2014		1996-2013	
		Net irrigated land	1996-2013			
		New Sown area	1991, 1996-1999, 2002-2013			

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Plantation crops				
		Fallow	1991, 1996, 2005- 2012			
		Area under organic farming thereof				
	2. Agriculture Production	Total production of crops	2000- 2002, 2004- 2014		2004- 2014	
		Yield of Kharif Crops %	2000- 2002, 2004- 2014		2004- 2014	
		Yield of Rabi Crops %	2000- 2002, 2004- 2014		2004- 2014	
		Yield of other crops %				
	3. Crop Production (plantation crops) (in million tons per annum)	Name				
		Production				
		Rice	1990- 2014		1991- 2014	
		Sowing Area	1990- 1997, 2000- 2014		1991- 1998, 2000- 2014	
		Production	1990- 2014		1991- 2014	
		Wheat	1992- 2014		1992, 1998- 2014	
		Sowing Area	1992, 2000- 2014		1992, 2000- 2014	
		Production	1992- 2014		1992, 1998- 2014	
		Pulses	1992- 2014		1992, 1998- 2014	
		Sowing Area	1992, 2000- 2014		1992, 2001- 2014	
		Production	1992- 2014		1992, 1998- 2014	
		Total food grains				
		Sowing Area				
		Production				
		Cotton				
		Sowing Area				
	Production					

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Jute & mesta				
		Sowing Area				
		Production				
		Sugarcane				
		Sowing Area				
		Production				
		Tobacco				
		Sowing Area				
		Production				
		Oil Seeds	1992-2014		1992-2014	
		Sowing Area	1992-2014		1992-2014	
		Production	1992-2014		1992-2014	
		Cereals	1993-2014		2004-2014	
		Sowing	2000-2014		2004-2014	
		Production	1993-2014		2004-2014	
		Others	1996-2011		1998-2011	
		Sowing Area	1996, 1998, 2005-2011		1996, 1998, 2005-2011	
		Production	1996, 1998, 2005-2011		1996, 1998, 2005-2011	
	4. Fertilizer Consumption	Nitrogen				
		Phosphate				
		Potash				
		Others				
	5. Pesticide Consumption	Insecticides				
		Fungicides				
		Weedicides				
		Rodenticide				
		Fumigants				
		Others				
V. Industries	1. Category of Industry	Total No. of Large Scale Industries	2012			
		Total No. of Medium Scale Industries	2001, 2004, 2012			
		Total No. of Small scale Industries	2001-2012			
		Total No. of Red Category Industries				
		Total No. of Orange Category Industries				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Total No. of Green Category Industries				
	2. Mining & Quarrying	Iron				
		Copper	1998-2002			
		Lead	1998-2002			
		Zinc	1998-2002			
		Nickel				
		Manganese				
		Bauxite				
		Coal				
		Other (Chromite)				
			Name of the Mineral Resources			
VI. Tourism & Heritage	1. Tourism & Heritage	Name and location of Heritage sites			✓	
		Name and location of Religious places/centres			✓	
		Name and location Archaeological monuments/sites			✓	
		Name and location of Scenic Areas			✓	
		Name and location of Tourist Resorts				
VII. Natural Resources	1. Land Use Classification	Total Geographical Area	1990-2015		1990-2015	
		Forest	1996 - 1997, 2005-2013			
		Non-Agriculture use	1996-1997, 2001-2013			
		Barren and uncultivable land	1996 - 2012			
		Permanent pastures and other grazing land	1996-2014		1996-2013	
		Miscellaneous tree crops and groves	1996-2011			
		Cultivable wasteland	1996-1997, 2001-2011			
		Fallow land other than current fallow	1996-1997, 2001-2011			
		Current fallow Net area sown	1996-1997, 2005-2011			
		Gross cropped area				
		Area sown more than once	2001-2011			

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Net irrigated area				
		Gross irrigated area				
		Others	2001-2002, 2005-2011			
	2. Land Degradation	Degraded land area	2005-2012		2006-2012	
		Degraded Irrigated land				
		Area affected by shifting cultivation	2000-2009, 2015		2000-2009, 2015	
		Deforestation rate				
		Total salt affected land				
		Salinization rate	2000-2009, 2012		2000-2009, 2012	
		Area effected by desertification				
	3. Waste Land	Gullied & or Ravenous Land %	1990-2015		1990-2015	
		Upland with or without Scrub %	2000-2011		2000-2011	
		Water Logged & marshy Land %	1990-2015		1990-2015	
		land affected by Salinity/Alkalinity Coastal/ Inland %	1990-2015		1990-2015	
		Underutilized Degraded Notified Forest Land %	2000-2011		2000-2011	
		Shifting Cultivation Area %	1990-2015		1990-2015	
		Degraded Land under Plantation Crops %	1990-2015		1990-2015	
		Degraded Pastures/Grazing Land %	1990-2015		1990-2015	
		Mining Industrial Wastelands %	1990-2015		1990-2015	
		Sands - Deserted Coastal %				
		Steep Slopping Area %	2001-2004		2001-2004	
		Barren Rocky/Stony Waste/Sheet Rocky Area %	2001-2011		2000-2011	
		Snow Covered and/or Glacial Area %	2000-2011		2000-2011	
	4. Types of Wetlands	Names of wetlands of national importance	2000-2015		2000-2015	
		Names of wetlands of international importance (Ramsar site etc.)				
		Coastal /Estuaries				
		Fresh water Lakes	2005-		2005-	

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
			2015		2015	
		Tanks/Ponds/Reservoirs/Dams	1997-2015		1997-2015	
		Marshes (Tidal/Non-Tidal)				
		Swamps				
		Mangroves				
		Flood Plains				
		Total Area of Wetland	1997-2015		1997-2015	
		Others				
	5. Soil Types	Black Soil				
		Red Soil				
		Desert Soil				
		Grey and Brown Soil				
		Saline & Alkaline Soil				
		Laterite Soil				
		Alluvial Soil				
		Mountain Soil	1990-2015		1990-2015	
		Mix Red & Black Soil				
		Peaty Soil				
	VIII. Forest Resource	1. Distribution of Forest Cover	Dense Forest	1990-2013		1998-2012
Open Forests			1990-2013		1988-2013	
Mangroves						
Trees outside forests			2010-2012			
Numbers						
Area in						
Non Forest			1995-2013		2013	
2. Recorded Forest		Reserved Forest	1990-2013		2002-2013	
		Protected Forest	1990-2013		2002-2013	
		Unclassed Forest	1990-2001		2002-2001	
3. Mining in Forests		Bauxite				
		Chromite				
		Copper				
		Iron				
		Manganese				
		Others				
4. Actual Forest Cover by Density		Dense Forest (Crown density Cover Area above 40%) (in ha)	1990-2013		1998-2013	
		Open Forest (Crown density 10- 40% (in ha)	1990-		1998-	



Module	Sub-Module	Fields	Period for which data updated				
			State-level		District-level		
			Annual	Monthly	Annual	Monthly	
	Class		2013		2013		
		Mangrove (in ha)					
	5. Forest Produce	Timber poles		2002, 2005-2007, 2010-2011			
		Fuel wood		1997-2001, 2010-2011			
		Pulp & match Wood					
		Sal seeds					
		Kandu/Bedi leaves					
		Gums & Resins					
		Cane/Rattan & Bamboo					
		Grass /Fodder					
		Drugs/Tannins					
		Spices		1990, 1995, 1988-1999			
		Lac					
	Others		2002-2007				
	6. Joint Forest Management Committee	Name of District				2002-2013	
No. of JFMC			1998-2013		2002-2013		
IX. Water Resource	1. Source of Water	Name of River		1990-2014			
		Total Length		1990-2014			
		Catchment Area					
		Seasonality (Perennial/Seasonal)		1990-2015			
		Canals (Length)					
		Reservoirs					
		Tanks, Lakes & Ponds					
		Brackish Water					
		Government Owned Canals					
		Private Canals					
		Tanks					
		Wells					
Tube Wells							
X. Ground Water	1. Status of Ground Water	Total Replenishable Ground Water Resource		2008-2010			
		Provision for industrial/ domestic/ other uses		2008-2011			

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
Resource		Available Ground Water Resource				
		Net Draft				
		Balance Ground Water				
		Level of Ground Water Development (%)				
		Utilization Ground Water Resource for irrigation in Net terms	2008-2011			
		Over Exploited	2008-2011		2008-2011	
		Critical Area	2008-2011		2008-2011	
		Gross Draft Estimated on Pro-rata basis	NA		NA	
	2. Categorization of Water Level	Pre-Monsoon average depth to water level				
		Post Monsoon average depth to water level				
		No. of Over Exploited Area	2010-2014		2010-2014	
		total Ground Water Resource				
	3. Use of Ground Water	Quantity of ground water for irrigation				
		Available ground water for irrigation				
		Utilizable ground water for irrigation	2008-2011		2008-2011	
		Net ground water draft	2008-2011		2008-2011	
XI. Ecology	1. Ecological Areas	Name of Biogeographical Zones	✓			
	2. Ecology Type	Name of National Parks	2006-2015			
		Name of Wildlife Sanctuaries	1990-2015			
		Name of Bird Sanctuaries	2005-2015			
		Name of Tiger Reserves				
		Name of Elephant Reserves				
		Name of Biosphere Reserves	1998-2015			
		Name of Protected Mangroves area (Private & Public)				
	3. Botanical Gardens	Name of Botanical Garden				
		Area of Botanical Garden	1998-2015			
		Location	1998-2015			
		Uniqueness				
	4. Zoological Parks	Name of Zoological Park	1998-2015			
		Area of Zoological Park	1998-2015			

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Location				
		Uniqueness				
	5. Physiographic Features	Mountain Name	1994-2015			
		Height (Meter)	1994-2015			
XII. Sanitation	1. Hygiene & Sanitation	No. of Town covered	2010-2013			
		No. of Town not covered				
		Total No. of treatment plants	2010-2013			
	2. Air Borne Disease	Type of Disease	2005-2014		2005-2014	
		Name of Disease	2005-2014		2005-2014	
		No. of Deaths	2005-2014		2005-2014	
	3. Water Borne Disease	Type of Disease	2005-2014		2005-2014	
		Name of Disease	2005-2014		2005-2014	
		No. of Deaths	2005-2014		2005-2014	
XIII. Water Pollution	1.	River Name				
		Location	2001, 2006, 2008, 2010-2014	2010-2013	2001, 2006, 2008, 2010-2014	2010-2013
		BOD	2001, 2006, 2008, 2010-2011	2010-2013	2001, 2006, 2008, 2010-2011	2010-2013
		COD				
		Ph	2001, 2006, 2008, 2010-2014	2010-2013	2001, 2006, 2008, 2010-2014	2010-2013
		Total Coliform	2001, 2006, 2008, 2010-2011	2010-2013	2001, 2006, 2008, 2010-2011	2010-2013
		Conductivity	2001, 2006, 2008, 2010-2011	2010-2013	2001, 2006, 2008, 2010-2011	2010-2013
		Lake Name	2001		2001	
	Location	2001		2001		

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
XIV. Air Pollution		BOD	2001		2001	
		COD	2001		2001	
		Ph	2001		2001	
		Total Coliform				
		Conductivity				
	1. Industrial	SO <sub>2</sub>				2010-2013
		NO <sub>x</sub>				2010-2013
		Suspended Particulate Matter (SPM)				2013
		Respirable Suspended Particulate Matter (RSPM)				2013
	2. Residential	SO <sub>2</sub>				2001, 2003-2004
		NO <sub>x</sub>				2001, 2003-2004
		Suspended Particulate Matter (SPM)				2001, 2003-2004
		Respirable Suspended Particulate Matter (RSPM)				
	3. Vehicular Pollution	No. of Vehicles	1995, 1998-2001, 2003, 2007, 2009		1995, 1998-2001, 2003, 2007, 2009	2009-2012
Type of Vehicles		1995, 1998-2001, 2003, 2007, 2009		1995, 1998-2001, 2003, 2007, 2009	2009-2012	
XV. Bio- diversity	1. Flora	Total Species (RET)	1990, 2007, 2013-2014			
		Redbook species No.				
	2. Fauna	Total Species (RET)				
		Redbook species No.				
XVI. Waste	1. Type of Waste	Hazardous waste (HW) in t/a				
		E-waste thereof in t/a				
		Biomedical waste (BMW)	2006, 2008-2009, 2011-2013		2006	
		Municipal Solid Waste (MSW)	2005, 2011, 2012		2005, 2011	

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Plastic Waste				
		Waste Water				
		Treatment/Disposal (for all 5)				
	2. Clean Technology	Type of Industries				
		Name of technology used				
	3. Effluent Treatment Plant/CEPT	Name of District				
		No. of Plants				
XVII. Disaster	1. Disaster	Type of Disaster	1990-2014		1990-2014	
		Year	1990-2014		1990-2014	
		Affected districts in nos.	1990-2014		1990-2014	
		Population affected (in millions)				
		Damage in crore INR				

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