



Government of Nepal
National Planning Commission
Central Bureau of Statistics

Global Set of Climate Change Statistics and Indicators
National Consultation on the Draft Set
Nepal's Experience

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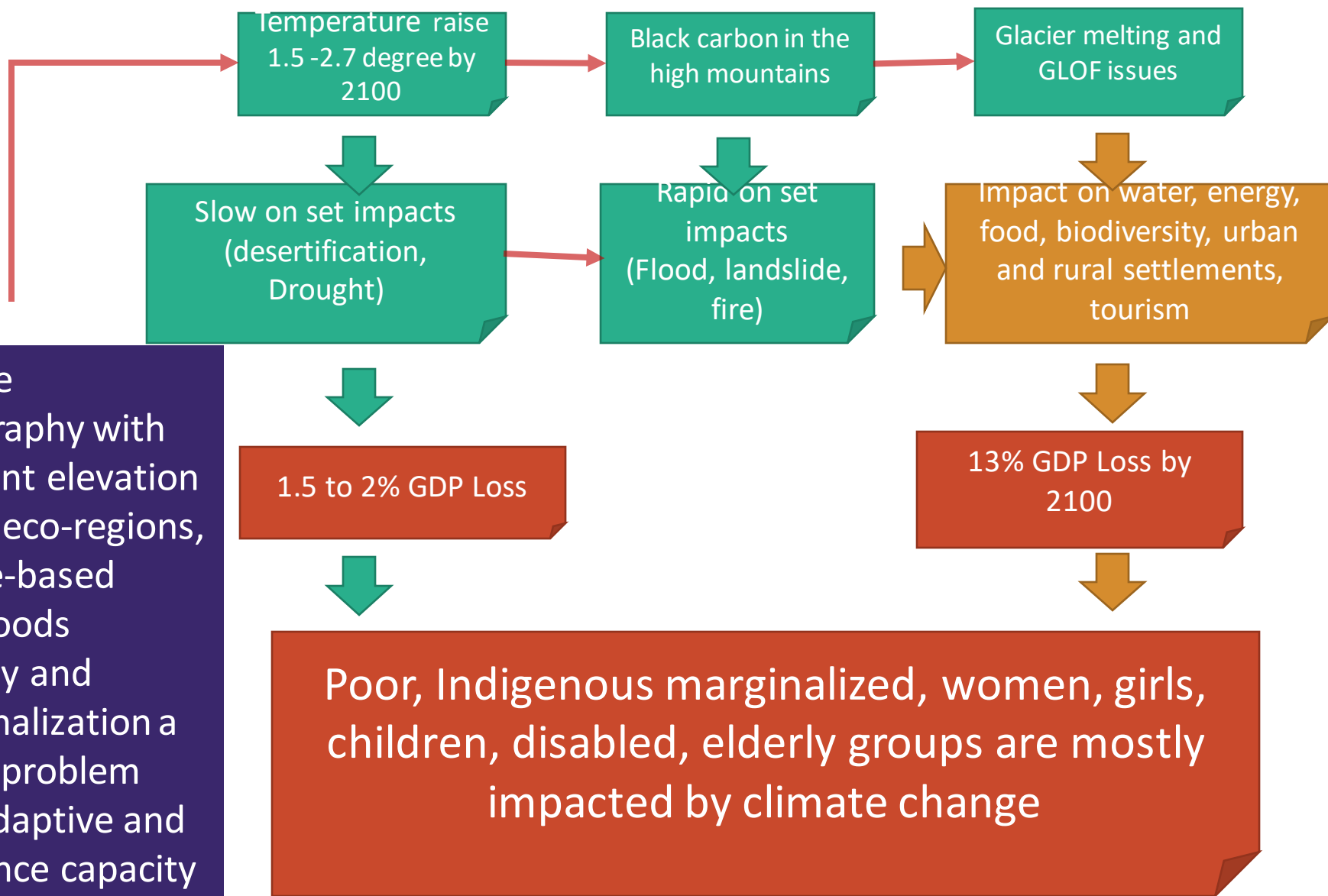
Climate Change Issues in Nepal

- The Himalayas play a crucial role in supplying water to the continent, they are sometimes called the “water towers” of Asia
- Melting ice from the mountains provides life-giving water to close to two billion people
- However, recently mountain region are at the forefront of climate change impacts with looming water crisis and huge losses due to disaster events

Climate Change Issues in Nepal cont..

- Nepal contributes only around 0.027 percent to total global emissions, although it is one of the countries most vulnerable to the impacts of climate change
- Nepal submits its second nationally determined contribution(NDC) document to UN outlining its targets for the next decade to reduce emissions and support vulnerable communities to adapt to the impacts of climate change
- The government strongly believes that these targets can be achieved as they have been set after consultation with various ministries, stakeholders and experts

Climate Impacts in Nepal



National consultation on the draft climate change indicators

Formation of technical committee leading by CBS including from Ministry of Forest and Environment & other stakeholders

- *Meetings conducted and discussed about how we can contribute*

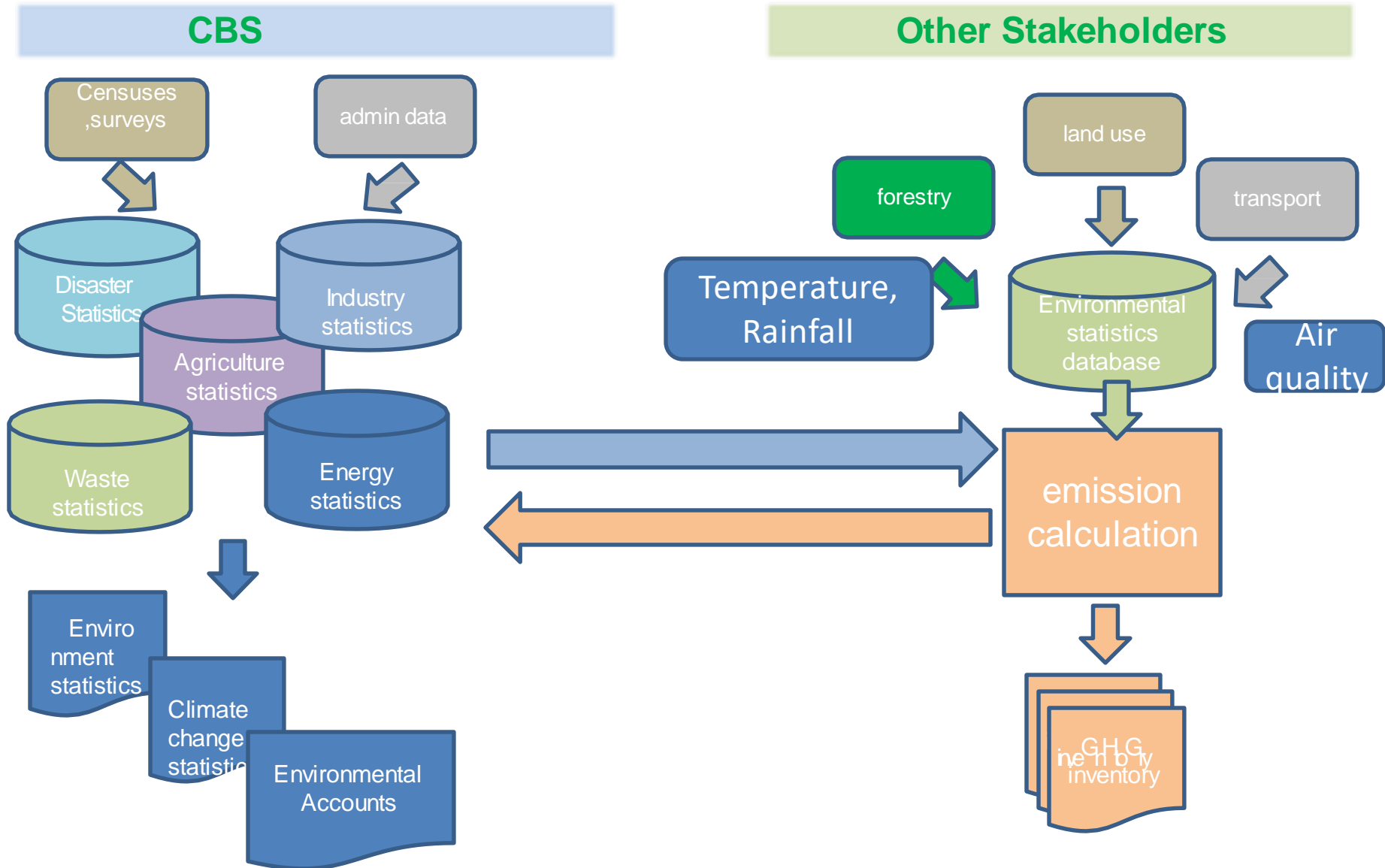
Consultation workshop with stakeholders

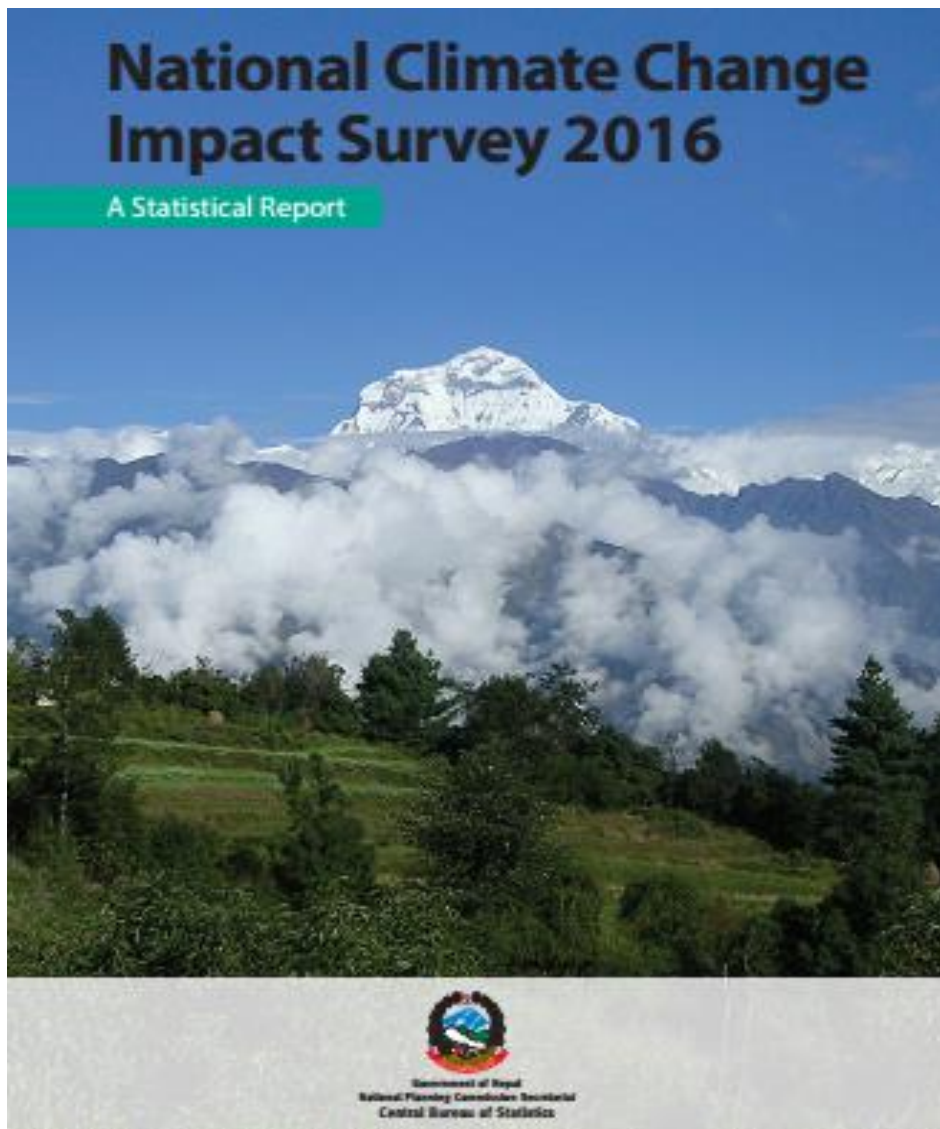
- The discussions were made to develop indicators which can respond to main climate change policy questions in an internationally comparable way
- As provisioned in UNSD framework agreed to keep these as five areas to be consistent with the UNSD framework.
- Basically, indicators in Agriculture, Forestry and Other Land Use (AFOLU), Energy, and Waste sectors were discussed in priority on the basis of relevancy of Nepal
- Consensus was made to omit some indicators from global set, which are not relevant in the context of Nepal for example, issues related with ocean and other statistics which were beyond the scope of national assessment

Current status

- Separate Environment Statistics Section in CBS
- Regular publication of Environment Statistics (Censuses, Surveys, admin data)
- National Climate Change Impact Survey Report, Waste management Baseline Survey Report
- Second Nationally Determined Contribution (NDC) Report (Ministry)
- National Communication Report (Ministry)
- Community questionnaire is added in Population census where one of the thematic area is environment/disaster

Co-operation loop for environment & climate change statistics





Both of these publications inform corresponding indicators in the Global Set



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Thapathali, Kathmandu Nepal

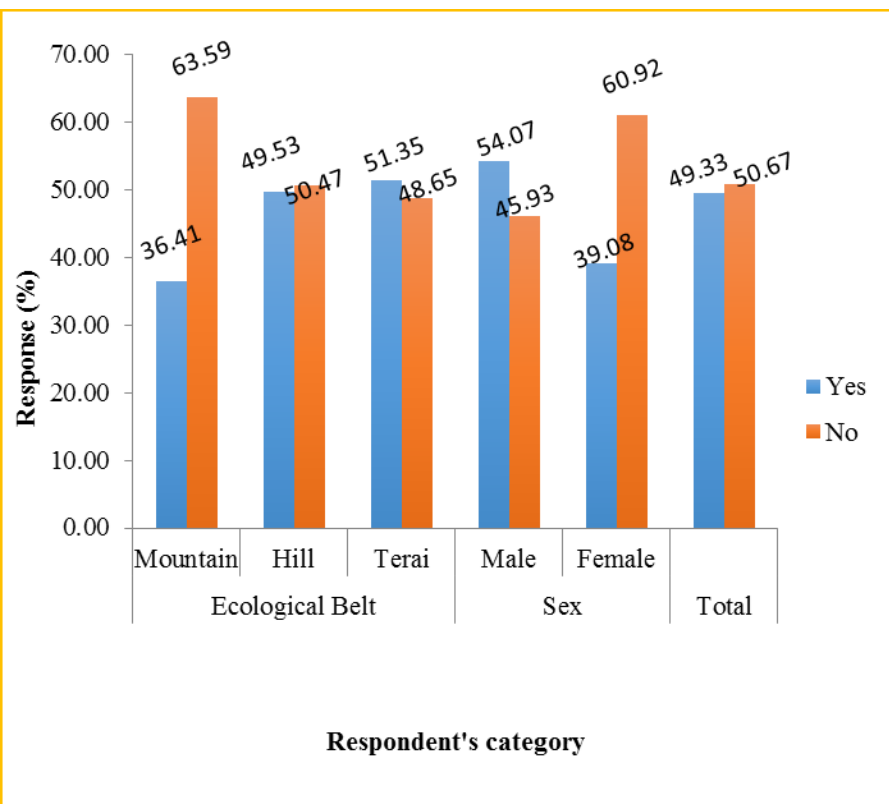
Filled in information in Part 2 of the Global Consultation

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Area	Topic	Indicator	Statistics	Code	Preliminary Tier	Themes	National Data Sources	Relevance	Methodological Soundness	Data Availability	Yes/No / Partially	Reference/ Link	Yes/No	Reference/ Link
		111	Average increase of insurance premiums incurred due to climate change	5140	3	Insurance								
			Insurance premiums incurred due to climate change	5141	3	Insurance	National Insurance							
			<i>Climate change public awareness and education</i>	520										
		112	Proportion of population with access to climate information	5200	3	Education		yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
			Number of households with timely access to climate information	5201	3	Education	NSO	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
			Number of people reached through climate change public awareness and education	5202	3	Education	NSO/Environment	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
		113	Extent to which (i) global citizenship education and (ii) education for sustainable development are integrated into national curricula	5210	2	Education	Ministry of Education							
				5211		Education								
		114	Number of companies publishing sustainability reports (SDG 13)	5220	2	Corporate reports	NSO/Environment							
				5221		Corporate reports								

Results on Perception of Climate Change

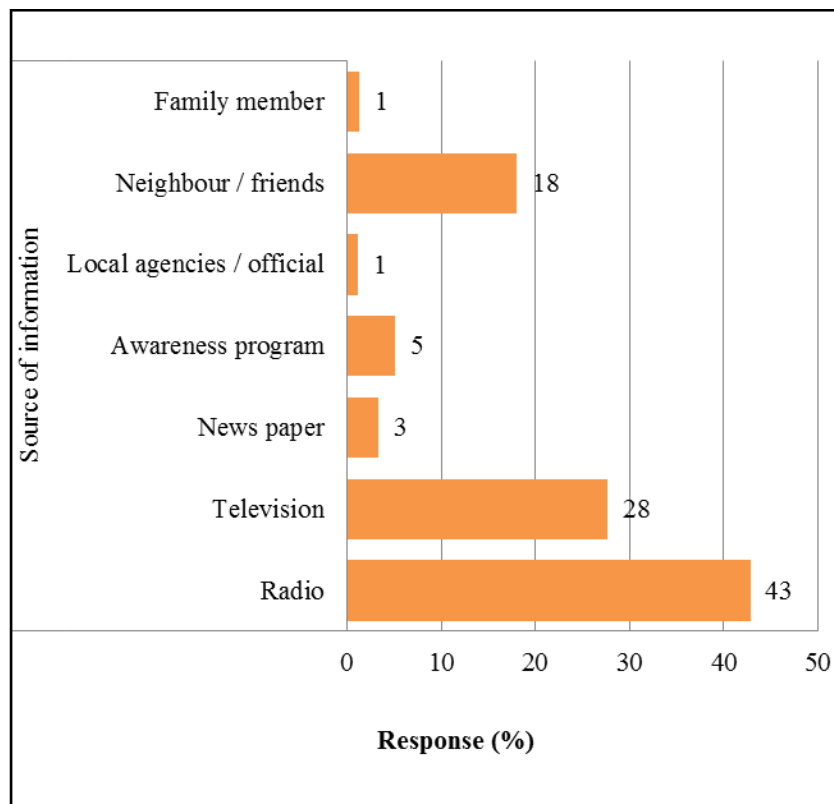
Informs indicator 112 in Global Set: Proportion of population with access to climate information

Households' knowledge on climate change



Statistics in the Global set: Number of households with timely access to climate information

Main source of information about climate change



Statistics in the Global set: Number of people reached through climate change public awareness campaigns

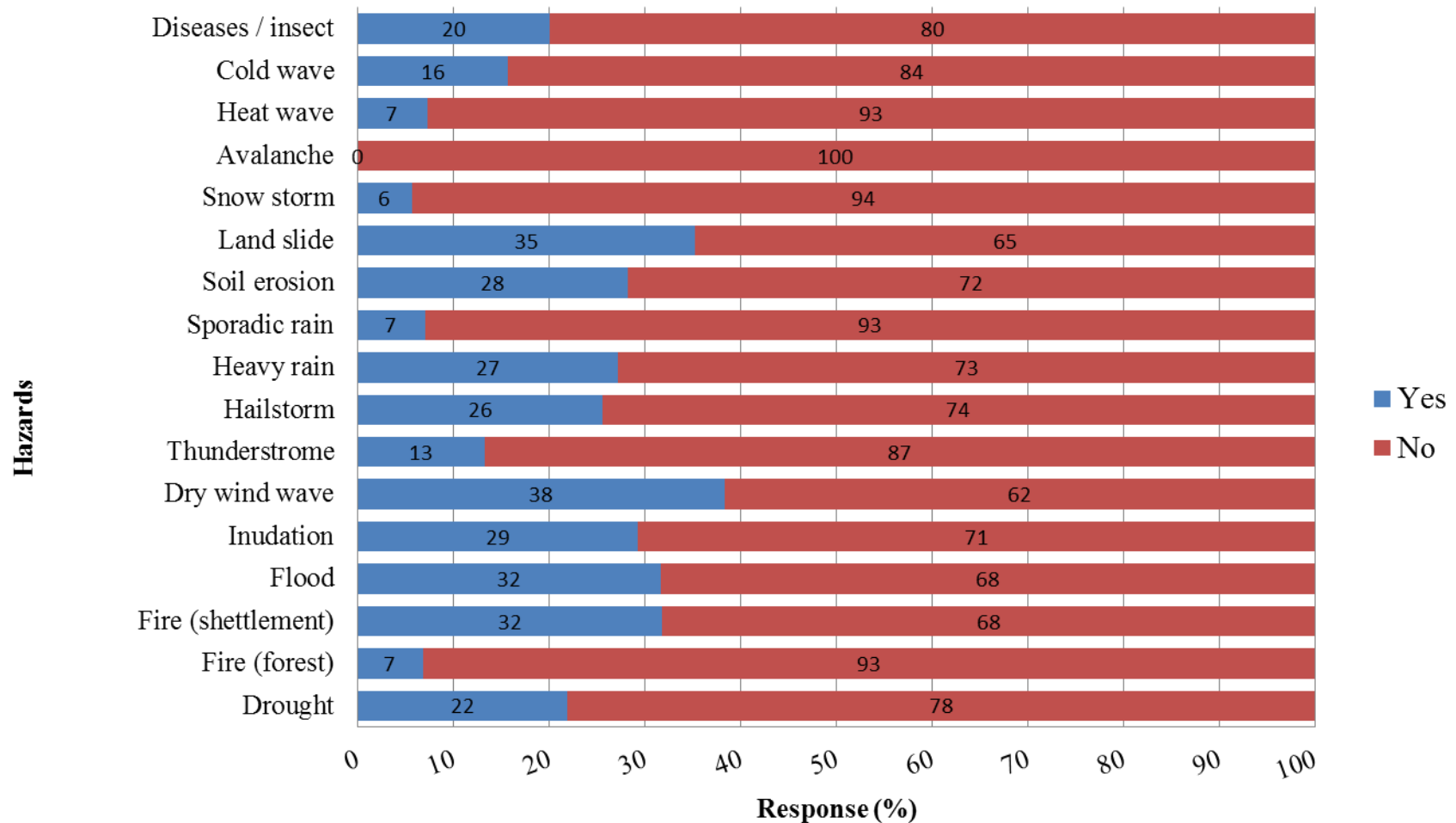
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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Area	Topic	Indicator	Statistics	Code	Preliminary Tier	Themes	National Data Sources	Relevance	Methodological Soundness	Data Availability				
								Yes/No	Reference/Link	Yes/no / Partially	Reference/Link	Yes/No	Reference/Link	
			pH/acidity/alkalinity (FDES 1.3.2.f.1)	2111	2	Water qual	Ministry o							
			<i>Hazardous events and disasters</i>	212										
		31	Frequency of hazardous events and disasters	2120	1	Disasters		yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
			Occurrence of hazardous events and disasters (FDES 4.1.1)	2121	1	Disasters	Disaster ag	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
			Occurrence of extremes of temperatures and precipitatio	2012	2	Disasters	Meteorolo	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
		32	Direct economic loss attributed to disasters in relation to glob	2130	2	Disasters		yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
			Economic losses due to natural extreme events and disast	2131	2	Disasters	Disaster ag	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
			Occurrence of hazardous events and disasters (FDES 4.1.1)	2132	1	Disasters	Disaster ag	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
			GDP	1082	1	Disasters	NSO							

Climate Induced Disasters and Impacts...

Informs indicator 31 in Global Set: Frequency of hazardous events and disasters

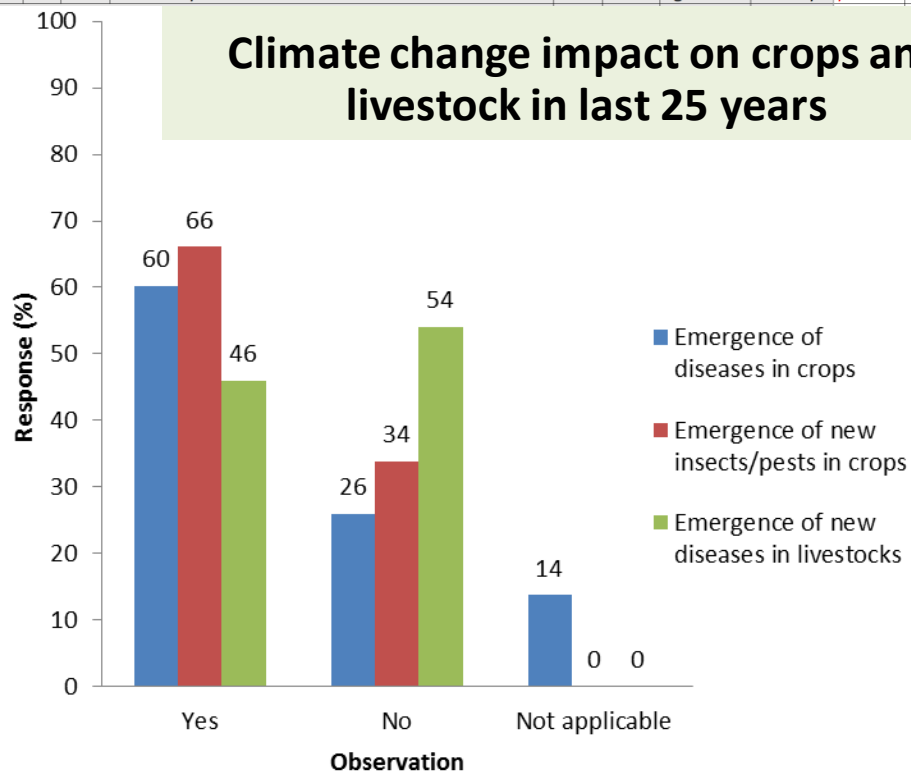
Households affected by disasters in last 25 years



Climate Change Impacts on Crops, and Livestock

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Area	Topic	Indicator	Statistics	Code	Preliminary Tier	Themes	National Data Sources	Relevance	Methodological Soundness	Data Availability	Yes/No	Reference/Link	Yes/No	Reference/Link
Area	Topic	Indicator	Statistics	Code	Preliminary Tier	Themes	National Data Sources	Relevance	Methodological Soundness	Data Availability	Yes/No	Reference/Link	Yes/No	Reference/Link
IMPACTS														
	Agricultural production impacted by climate change			201										
	20	Crop loss due to climate extremes		2010	3	Agriculture	Ministry of	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
		Crop yield		2011	1	Agriculture	Ministry of	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
	21	Impact of climate change on livestock productivity		2020	3	Agriculture	Ministry of	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
		Livestock yield		2021	1	Agriculture	Ministry of	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	

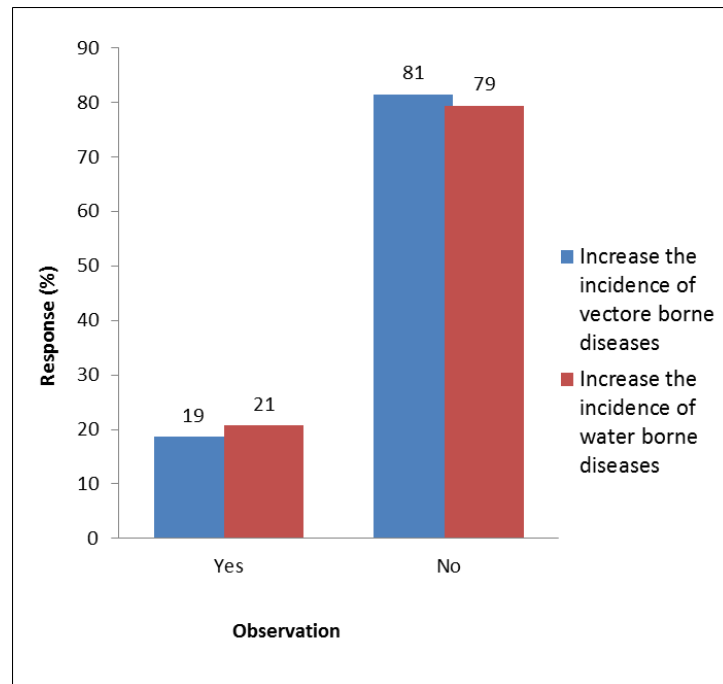
Climate change impact on crops and livestock in last 25 years



Climate Change Impacts on Human Health

Area	Topic	Indicator	Statistics	Code	Preliminary Tier	Themes	National Data Sources	Relevance	Methodological Soundness	Data Availability			
								Yes/No	Reference/Link	Yes/No / Partially	Reference/Link	Yes/No	Reference/Link
	34	Climate refugees, migrant and displaced persons by climate change		2150	3	Disasters	Disaster preparedness						
			Number of people whose destroyed dwellings were attributed to climate change	2151	2	Disasters	Ministry of Environment						
		<i>Climate change and human health</i>											
	35	Increase of cases of climate-related diseases		2160	3	Health		yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016
			Incidence of climate-related airborne diseases and conditions	2161	2	Health	Ministry of Health	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016
			Incidence of climate-related water-related diseases and conditions	2162	2	Health	Ministry of Health	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016
			Incidence of climate-related vector-borne diseases (UN-EPA)	2163	2	Health	Ministry of Health	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016
	36	Increase in heat and cold related illnesses		2170	3	Health	Ministry of Health	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016
			[incidence/mortality from] Heat and cold related illnesses	2171	3	Health	Ministry of Health	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016

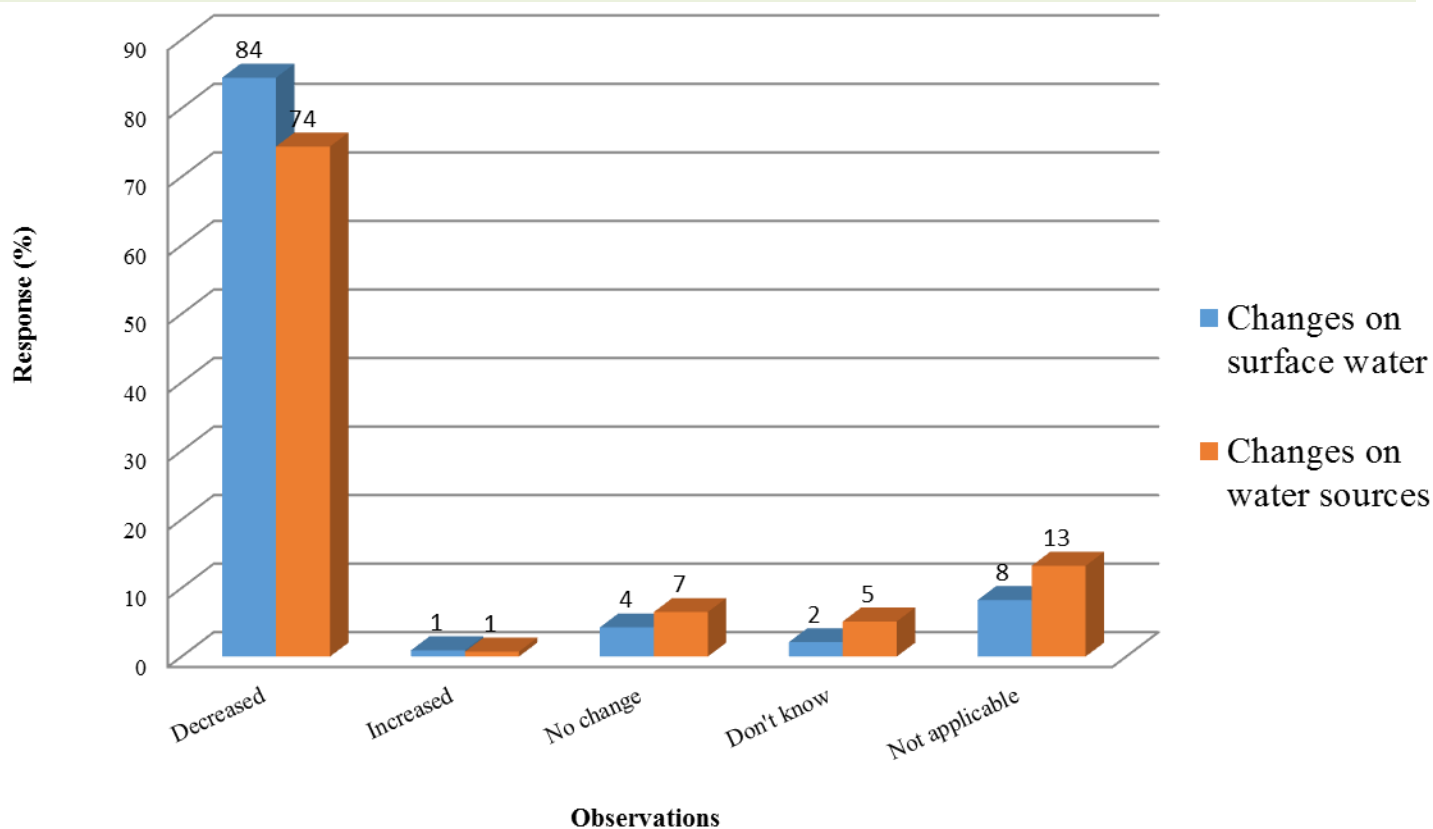
Climate change impacts on human health in last 25 years



Climate Change and Natural Resources: Water and Biodiversity

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Area	Topic	Indicator	Statistics	Code	Preliminary Tier	Themes	National Data Sources	Relevance	Methodological Soundness	Data Availability				
								Yes/No	Reference/Link	Reference/Link	Yes/No	Reference/Link	Yes/No	Reference/Link
Freshwater abstraction, supply and use				209										
	28	Freshwater abstracted as proportion of renewable freshwater		2090	1	Water reso	Meteorolo	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
		Freshwater abstracted (FDES 2.6.2.a)		2091	1	Water reso	Meteorolo	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
		Renewable freshwater resources (FDES 2.6.1.c)		2092	1	Water reso	Meteorolo	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	

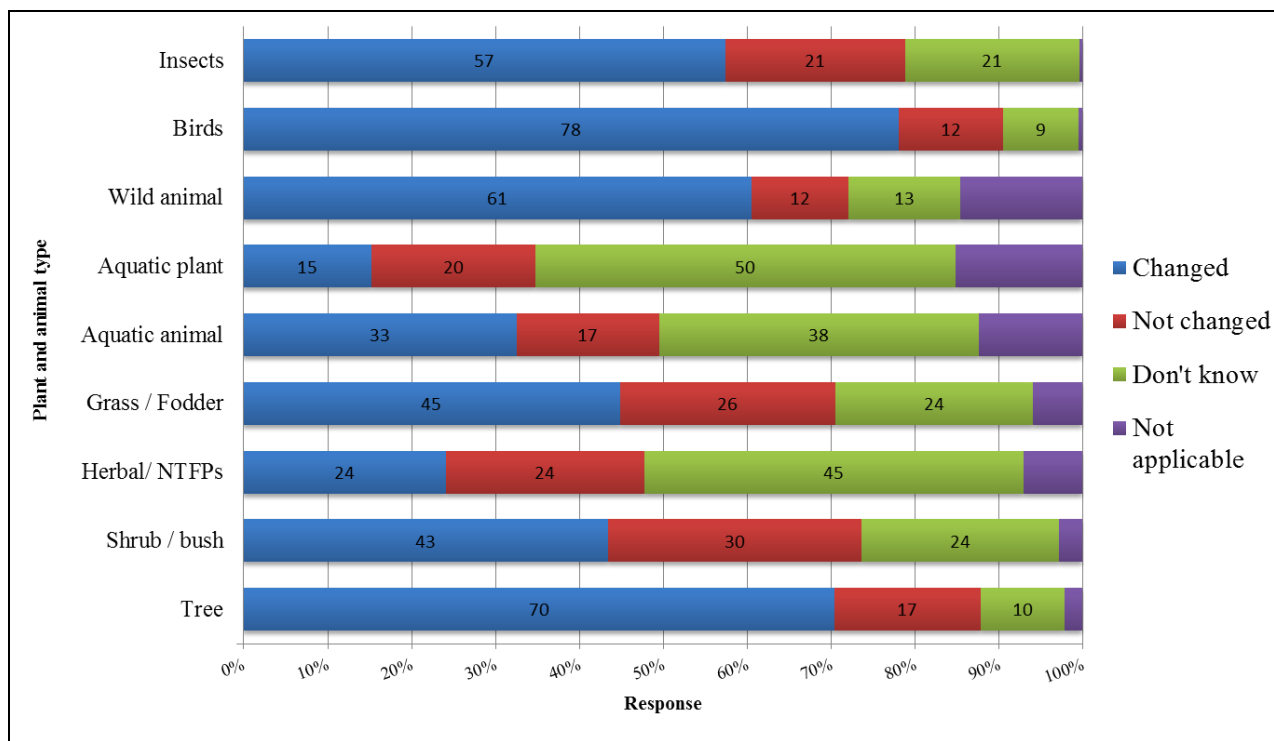
Observed changes on water resources in last 25 years



Climate Change and Natural Resources: Water and Biodiversity...

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Area	Topic	Indicator	Statistics	Code	Tier	Preliminary	Themes	National Data Sources	Relevance	Methodological Soundness	Data Availability			
									Yes/No	Reference/Link	Yes/No / Partial	Reference/Link	Yes/No	Reference/Link
	<i>Distribution and status of species</i>				242									
51	Proportion of population maintained within a species			2420	3	Species	Ministry of	Ministry of	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016
	Species population (FDES 1.2.2.c.4)			2421	2	Species	Ministry of	Ministry of	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016
52	Red list index (SDG 15.5.1)			2430	2	Species	Ministry of	Ministry of						
	Number of red list species (FDES 1.2.2.c.1)			2431	2	Species	Ministry of	Ministry of						
53	Species habitat index			2440	2	Species	Ministry of	Ministry of	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016
	Area of ecosystems (FDES 1.2.2.a.1)			2441	2	Species	Ministry of	Ministry of	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016
	Known flora and fauna species (FDES 1.2.2.c.1)			2442	2	Species	Ministry of	Ministry of	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016

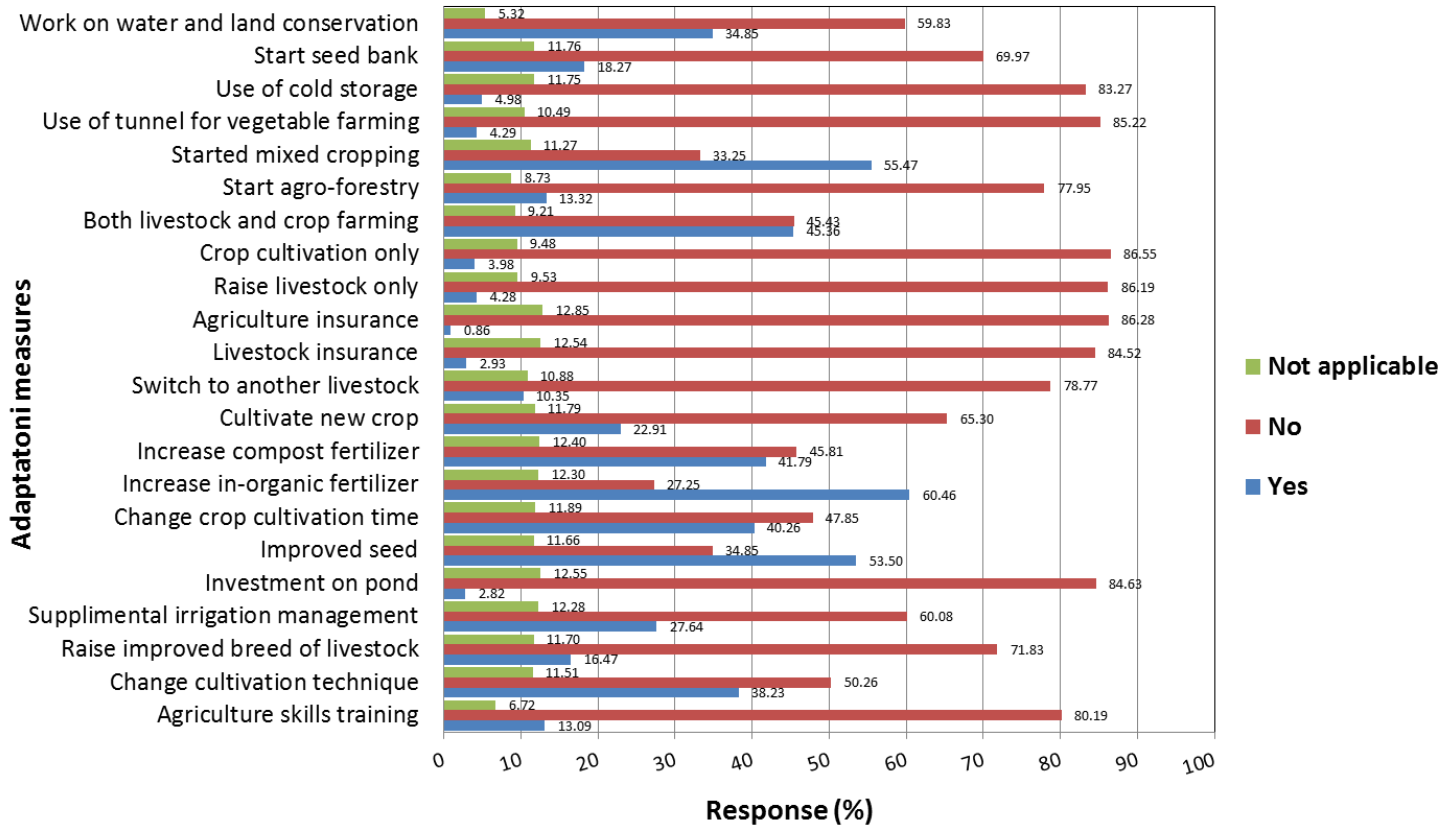
Changes in the status of animal and plant species in last 25 years



Adaptation Measures

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Area	Topic	Indicator	Statistics	Code	Tier	Themes	National Data Sources	Relevance	Methodological Soundness	Data Availability				
								Yes/No	Reference/Link	Yes/No/Partial	Reference/Link	Yes/No	Reference/Link	
	124	Proportion of agricultural area under productive and sustainable		5260	2	Agriculture	NSO/Ministry	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
		Risk mitigation mechanisms (Subindicator of SDG 2.4.1)		5261	2	Agriculture	NSO/Ministry	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
		Variation in water availability (Water use, Subindicator of SDG 2.4.1)		5270	2	Agriculture	NSO/Ministry	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
		Use of agro-biodiversity-supportive practices (Subindicator of SDG 2.4.1)		5280	2	Agriculture	NSO/Ministry	yes	Planning Commission	yes	Climate Change Impact Survey 2016	yes	Report on Climate Change Impact Survey 2016	
	125	Progress towards sustainable forest management (SDG 15.2.1)		5360	2	Forests	Forestry department							

Adaptation measures (farm based) adopted in last 25 years

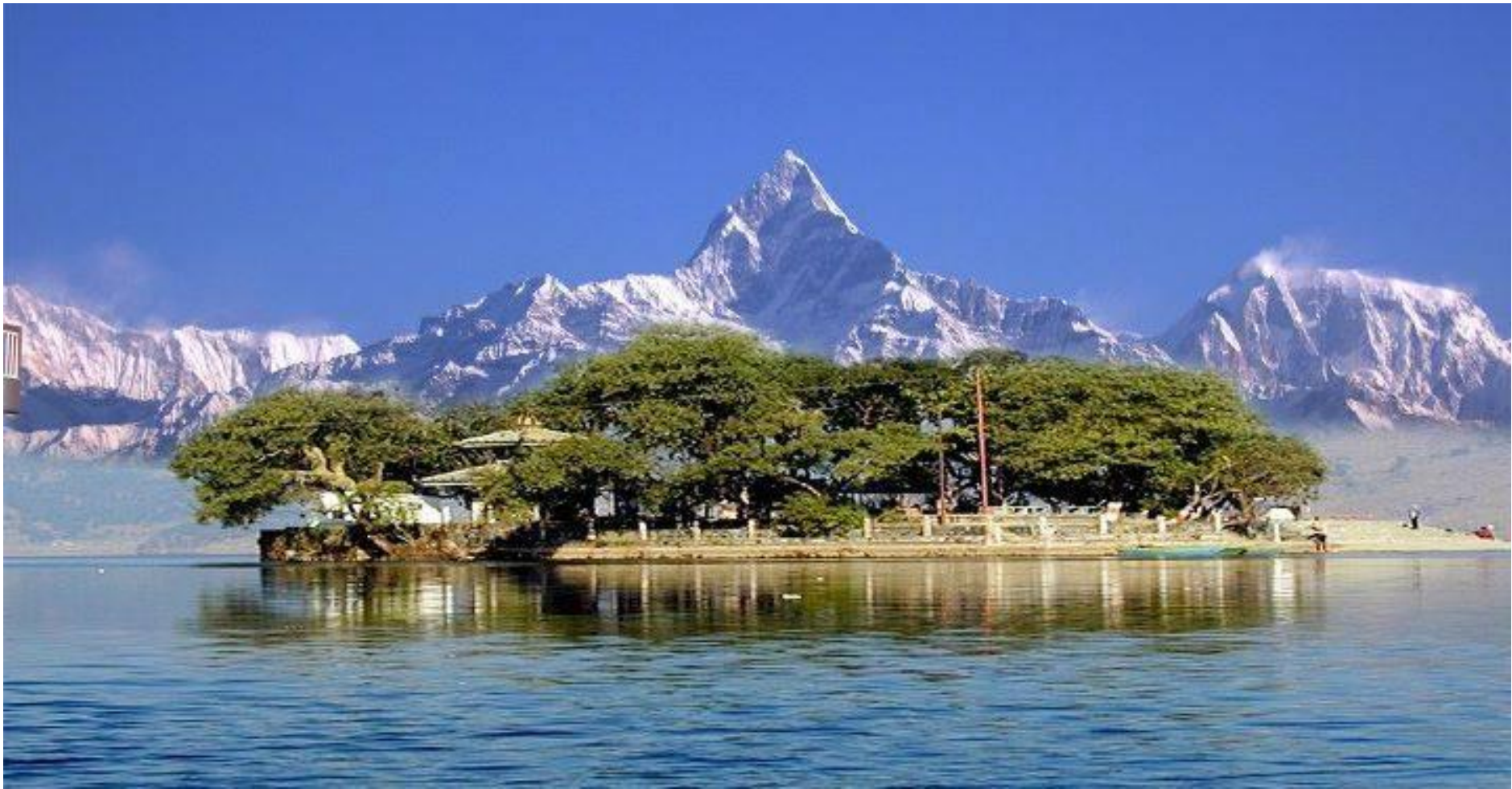


Issues and challenges

- Data gaps
- Administrative data is not reporting on time
- Capacity development
- Coordination/collaboration
- Prevailing statistical laws and regulations have not been updated/amended
- Data sharing policy
- Weak statistical infrastructure
- Covid-19 Pandemic (First wave, second wave,)

Next steps

- Share the prefilled Consultation parts and discuss with the national focal point reporting to UNFCCC
- Share the prefilled Consultation and set up a meeting with technical committee to discuss Part I and assess most relevant indicators and data availability in the draft Global Set contained in Part II (Excel).
- Complete Part I and a draft of Part II (share draft with UNSD) and organize a second wider meeting (last week of July) with more stakeholders before finalization and submission to UNSD.



Thank you !!!
Your comments and queries are highly appreciated !!!