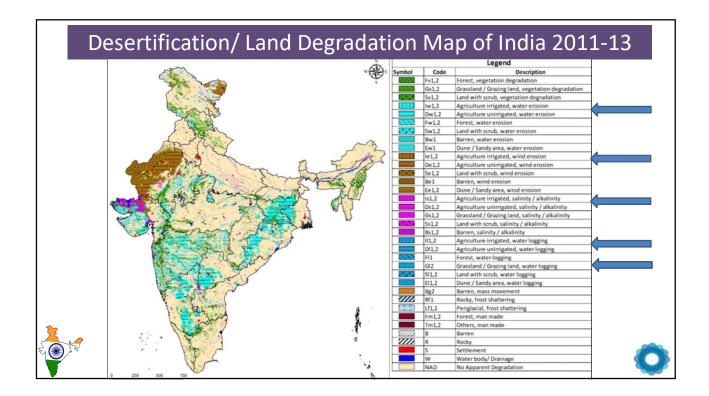


Land Degradation in India								
Process of Desertification / Land	2011-13		2003-05		Change (mha)			
Degradation	Area (mha)	Area (%)	Area (mha)	Area (%)	(2011-13) - (2003-05)			
Vegetation Degradation	29.30	8.91	28.28	8.60	1.02			
Water Erosion	36.10	10.98	35.61	10.83	0.49			
Wind Erosion	18.23	5.55	18.35	5.58	-0.12			
Salinity	3.67	1.12	4.01	1.22	-0.34			
Water Logging	0.65	0.20	0.60	0.18	0.05			
Frost Shattering	3.34	1.02	3.11	0.95	0.23			
Mass Movement	0.93	0.28	0.84	0.26	0.09			
Manmade	0.41	0.12	0.37	0.11	0.04			
Barren/Rocky	1.89	0.57	1.88	0.57	0.01			
Settlement	1.88	0.57	1.48	0.45	0.40			
Total Area under Desertification	96.40	29.32	94.53	28.76	1872523			
No Apparent Degradation	226.73	68.97	228.68	69.57	-1954372			
Total Geographical Area (mha)			328.72					

Classification System Used by SAC

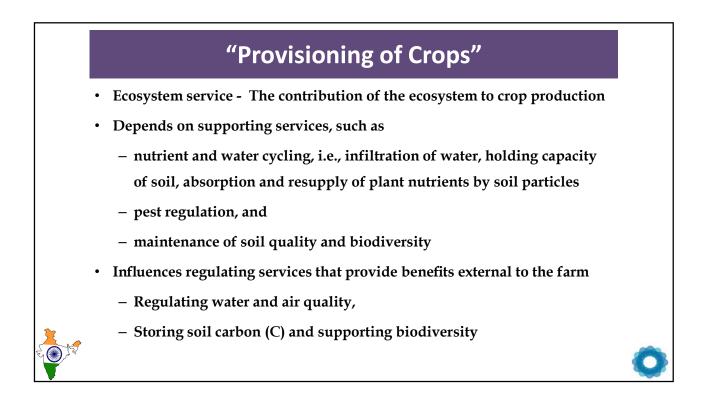
Level-1: Land Use		Level-2: Process of Desertifica	Level-3: Severity		
Agriculture irrigated	1	vegetation degradation	v	Slight	1
Agriculture unirrigated	D	water erosion	w	Moderate	2
Forest / Plantation	F	wind erosion		Severe	3
Grassland / Grazing land	G	salinity / alkalinity	s/a		
Land with scrub	s	water logging	I		
Barren	в	mass movement	g		
Rocky area	R	frost heaving	h		
Dune / Sandy area	E	frost shattering	f		
Glacial	с	man made	m		
Periglacial	L				
Others	т	1			



Land Degradation and the Indian Economy

Situation Assessment Survey of Agricultural Households, 2013

- 90.2 million agricultural households
- 58% of rural or 40% of total households
- Rajasthan has 78.4% of agricultural households
- Avg gross cropped area per agricultural household
 - of 0.9 hectare



Measuring "Provisioning of Crops"

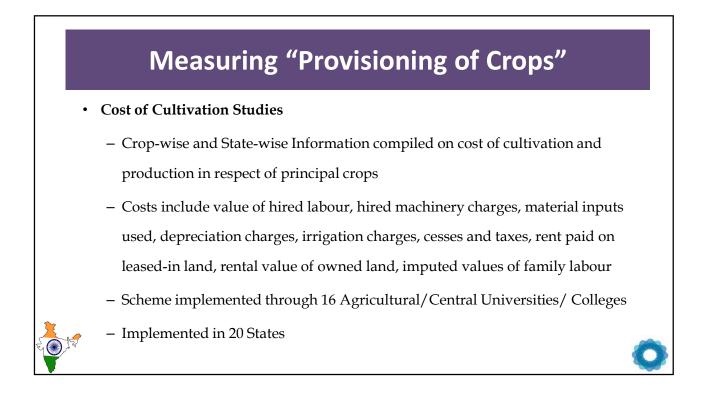
- SEEA prescribes the use of 'resource rent method'
- Appropriation method Actual payments made to owners in terms of rental value of owned land or rent paid for leased-in land

Sources of information in India:

- Cost of Cultivation Studies
- Information on Area, Production and Yield (APY) of major crops



Land Use Statistics



Measuring "Provisioning of Crops"

- Special Data Dissemination Division of M/o Agriculture
- Land Use Statistics District-wise information on land use giving ninefold classification of land, irrigated area (source-wise and crop-wise) and total area under crops
- District-wise Information on Area, Production and Yield (APY) of major crops
- Data available from 1998-99 onwards on http://aps.dac.gov. in
- Value of Ecosystem Service = "Rent per unit quantity of crop" X "Production"

