

Climate change awareness scale

Respected Sir/Madam,

My name is Shivam Singh, currently pursuing an II year Ph.D. in Agricultural Extension Education in the Department of Agricultural Extension Education, CSAUA&T, Kanpur. As a part of my doctoral degree, I have to undertake research. In this regard, I would like to assess the Climate change awareness of farmers. To serve this purpose, I would like to construct a scale, for which I am in need of your assistance since you are an expert in the field of Agricultural Extension. Hence, I request you to kindly give your opinion about the relevance of the statement for construction of climate change awareness scale. Please indicate your response as either 'highly relevant', 'relevant', 'irrelevant'.

aex201@gmail.com [Switch account](#)



Not shared

* Indicates required question

Name *

Your answer

Prefix *

Choose



Designation *

Your answer



Education Qualification *

- ☐ Graduation
- ☐ Post Graduation
- ☐ Ph.D
- ☐ others

currently service *

Your answer

Institute/ Organization *

Your answer

Contact No. *

Your answer

Email. *

Your answer



Awareness of farmers on changes in the precipitation *

	Highly relevant	Relevant	Irrelevant
1. Precipitation has declined.	☐	☐	☐
3. Heavy rainfall, drought and frost situation results in abnormal growth of crops.	☐	☐	☐
4. Occurrence of heavy fog during winter season.	☐	☐	☐
5. Poor quality of produce due to unfavourable rainfall condition results in low market price .	☐	☐	☐
6. Now a days there is change in the rainfall during crop growth period.	☐	☐	☐
7. Changes in rainfall pattern that lead to severe water shortages and/or flooding.	☐	☐	☐
8. Seasonal changes in rainfall, could alter growing seasons, planting/harvesting calendars.	☐	☐	☐
9. Unpredictable rainfall.	☐	☐	☐



Awareness of farmers on changes in the temperature *

	Highly relevant	Relevant	Irrelevant
10. Now a days there is rise in both day and night temperature.	☐	☐	☐
11. Rise in temperature results in large scale migration of people and animals.	☐	☐	☐
12. Rising temperatures will be lead to shifts in crop growing seasons.	☐	☐	☐
13. Long dry spells and increased rate of drought.	☐	☐	☐
14. High temperature and relative humidity results in poor quality of the produce.	☐	☐	☐
15. Increasing temperatures during summers/winters.	☐	☐	☐
16. Change in length of season – short winter and long summer.	☐	☐	☐
17. Prolonged summer can lead to a range of consequences including, droughts, wildfires, and disruptions to	☐	☐	☐



ecosystems and
agriculture.

18. Increased of
extreme events i.e.
cold wave, heat wave
and heavy fog etc.



This question requires one response per row



Awareness of farmers about impact of climate change on agriculture *

	Highly relevant	Relevant	Irrelevant
19. Stronger wind and heavy rainfall increase soil erosion.	☐	☐	☐
20. Climate change alter land suitability.	☐	☐	☐
21. Agriculture is extremely vulnerable to 'Climate Change.	☐	☐	☐
22. As a result of climate change, there is increase in operational cost in agriculture due to increased expenditure on inputs.	☐	☐	☐
23. Increase frequency of strong wind and storms result in heavy lodging and uprooting of crops.	☐	☐	☐
24. High rainfall and relative humidity results in increased insect problems.	☐	☐	☐
25. Income from agriculture is adversely affected due to climate change.	☐	☐	☐
26. Practices like burning of crop residues in field is also contributing toward climate	☐	☐	☐



change.

27. Reduced soil moisture and evapotranspiration may increase land degradation and desertification.

☐☐☐

28. Climate change increase weeds infestation.

☐☐☐

29. A warmer climate would reduce flexibility in crop distribution and increase irrigation demand.

☐☐☐

30. The availability of irrigation water is changing due to climate change.

☐☐☐

31. Climate change alter the photosynthesis and bio mass production.

☐☐☐

32. Maturity period of major crops is reducing due to climate change.

☐☐☐

33. Decrease the crop production due to climate change.

☐☐☐

34. Decline soil productivity due to climate change.

☐☐☐

35. Productivity of rain-fed crops will be adversely affected due to increased rate of drought.

☐☐☐

36. Indian agriculture is dependent on monsoon.

☐☐☐

37. Delayed onset of monsoon.

☐☐☐

38. Uneven distribution and early withdrawal of monsoon.

☐☐☐

39. Uneven distribution and early withdrawal of monsoon.

Awareness about pollution causes climate change *

Highly relevant

Relevant

Irrelevant

39. Excessive uses of natural resource like water, soil, forest etc also affect the climate adversely.

☐☐☐

40. The excessive use of insecticide/pesticides also adverse effect on the climate and soil health.

☐☐☐

41. Burning of crop residue is a main reason of climate pollution.

☐☐☐

42. More industrialization also affects the climate badly.

☐☐☐

Awareness about Greenhouse gases *

	Highly relevant	Relevant	Irrelevant
43. Increase the concentration of greenhouse gases (carbon dioxide (CO ₂), methane (CH ₄), nitrous oxide (N ₂ O),) which lead to climate change.	☐	☐	☐
44. Crop (rice) also produce (methane gas) GHG gas that lead to climate change.	☐	☐	☐
45. Farm animal also produce methane gas which lead to climate change.	☐	☐	☐
46. CO ₂ level is increasing which is harmful for climate.	☐	☐	☐
47. Industrialization is also main cause of GHG.	☐	☐	☐



Awareness about Biological systems *

	Highly relevant	Relevant	Irrelevant
48. Increase the incidents of physiological disorder in crops.	☐	☐	☐
49. Duration of fruit/crop ripening is changing due to climate change.	☐	☐	☐
50. Changes in flowering and fruiting time due to climate change.	☐	☐	☐
51. Increase the incidents of diseases in crops due to climate change.	☐	☐	☐

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