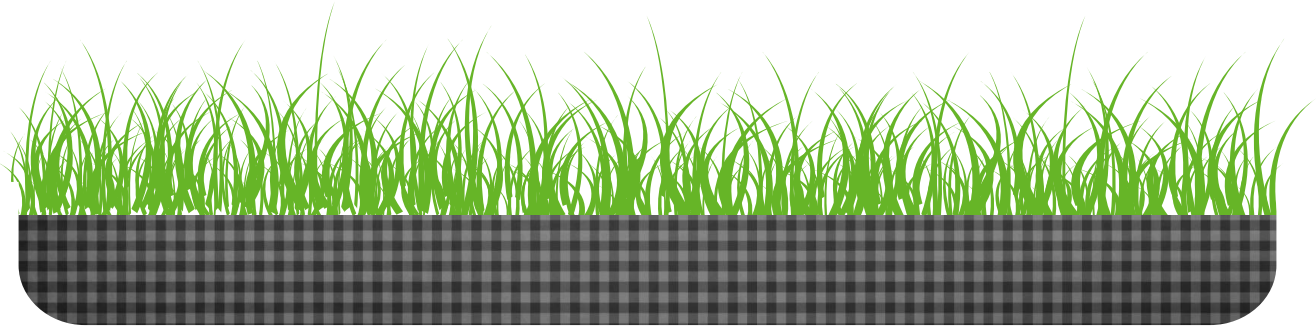
بسم الله الرحمن الرحيم

CLIMATE CHANGE EFFECTS ON SEASONAL CROPS / VEGETABLES

PRESENTED by: Muhammad Muzamil

HALEEMA DEVELOPMENT ORGNIZATION PUNJAB



Introduction of HDO

Haleema Development Organization Punjab is working in District Kot Addu / Muzaffargarh (Punjab). HDO is trying to compete the different problems of humanity through providing its services in different sectors of life. HDO's thematic areas with its specialty are Nutrition awareness campaign, Health & Education, Climate Change & Child Protection as well as the capacity building program also in line. HDO is registered with Punjab Social Welfare Department & also registered with Punjab Charity Commission Punjab.

PARTNERs: HDO is partner & members of different Networks and organizations i.e " **SUN CSA Pakistan, PAFEC Pakistan, NACA Pakistan, FAFEN Pakistan, CTC Pakistan, Chanab Network Muzaffargarh"**

Changing Climate Effects

Climate Change means known as increasing temperature. It is an alarming situation which leads to words drought and food insecurity. Changing Climates which causes increasing temperature has effected our natural 04 seasons in our country and it is stringed in hot summer (duration March to October / November) and high cold weather (December to January).

- Due to extreme weather conditions our seasonal crops are to much effected:
- Wheat crop is being effected due to early warm weather. ******** as well as cotton, rice & pulses also under the pressure of climate change.

Changing Climate Effects

- **Vegetables** which are essential need of human being', are also made its maturity before time and its pollination effects to much because of high temperature. In our region vegetables produced in the market being watered during its growing time with the sewerage or drainage water which causes multiple diseases in connection with human health & minimum nutrition gradients.
- **Flowering:** Flowers also make the maturity before time and it causes falling flowers effects to much due to increasing temperature.
- Extreme weather condition impacts to our irrigation system and in this way irrigation calendar badly effect. **** (snowfall)

Changing Climate Effects

- **Fruits:** South Punjab is having its specialty in different kind of fruits that mango, dates, oranges, pomegranate. These all are export quality fruits but the extreme weather conditions and the thunderstorms always effects their quality production it means the production minimize as the export minimize so the farmer of the area of growing such crops can not meet its expenses and this way its economic condition and the budget of next cropping season always disturb.

IMPACTS

- As discussed the above slides it is an alarming condition that the extreme hot & extreme cold weather disturb our corps production which leads towards drought if we do not address properly the climate change and its adverse results.
- As discussed about in the results of extreme weather condition our agriculture committed community suffering to much because their crop production cannot meet their cropping season expanses and in results their economic condition badly disturbed.
- In results of low cropping production economy of our country which depends on more than 70% on agriculture also suffer.

RECMENDATIONS

- That MET Department with collaboration of Ministry of agriculture and food security should design the climate change policies which are applicable to all over the Pakistan. The policy should be designed with the consent with local district level departments of agriculture, irrigation and environment.
- That at least Tehsil level capacity building programs / awareness campaigns with engaging Tehsil level CSOs and social activist.

RECMENDATIONS

- That forest department should also engage in the such activities and plantation must be the core agenda of all these activities which is hammer tool to minimize the Temperature and cover the adverse results of climate change.
- That at least at district level authorities o Ministry of Labor and Industry should be fully aware off and committed to minimize the industrial pollution at any cost which will impact to minimize the Temperature as well. It is also be the agenda of plantation at least 0.2 million plants in the district should be planted by these industries through engaging local civil society organization & Small farmer at gross root level.

Pictorial View

Thank You