

4(d). Traditional knowledge on weather forecast and their validity

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- Observations over generations
- Many have found scientifically valid
- Can be considered as a tool along with scientific weather forecast for taking farming decision

Short range ITK

1. There will be heavy rain pour, if the rain bow appears on the eastern sky at the time of raining. If it is on the western sky, there will be no rain
2. When crab comes to the bund, it may rain
3. Red clouds in the east sky, it may rain in the next day
4. Frogs crocking in chorus then it is followed by rain
5. When dragon flies, fly down(low), it may rain that there will be rainfall within a day or two.

Short range ITK(contd)

6. Increased mosquito bite predicts rain
7. Dense fog in the early morning indicates no rain
8. If there is an accumulation of clouds in the South-East direction in a layered form accompanied by winds blowing from the southern direction then it is claimed
9. If there is a swelling on the lower portion of the camel's legs then rainfall is predicted by the farmers. The swellings are probably caused due to higher relative humidity.

Medium Range ITK

- 1.The closer circle to the moon, the nearer is the shower and vice versa
- 2.If a snail climbs certain trees, there will be no rain

Long Range ITK

- 1.If the Tatihari bird(Lapwing) lays eggs on the higher portion of the lake bunds or on the top of any structure, the coming season carries heavy rainfall. If the same bird lays eggs on the lower side of the tank or on the floor of the water body structure, drought is anticipated

Long Range ITK(contd)

2. Further it is also believed that if a single egg is laid by the Lap wing bird, then there will be rainfall only for one month out of four months of the rainy season. If two eggs are laid then rainfall will occur for two months and similarly four eggs indicate there will be rainfall during all the four months of the rainy season.

Long Range ITK(contd)

3. If the clouds thunder on the first day of mid April, there shall be no rain for 72 days

4.If crow cries during night and fox howls during the day, then there would be severe drought

Long Range ITK(contd)

5.If the "Tillbohara" (Dragon fly), which appears generally in the rainy season, are observed to swarm in a large group over a water surface (Pond) then dry weather is predicted but if they swarm over open dry lands or fields then early rainfall is predicted by the farmers.

Long Range ITK(contd)

- 6. If the "Khejri" tree bears good fruit in a particular year then farmers predict good rainfall during the next rainy season and vice versa less rain is predicted in the event of a poor fruit crop.