# Verification of Subsequent Week Forecast for the Subdivision: xxxxxx

### Month, 20xx

Forecast Category: Normal/Above Normal/Below Normal (N/AN/BN) - Rainfall/Tmax/Tmin

	Week 1		Week 2		Week 3		Week 4		Week 5	
	Tue	Fri								
Forecast										
Actual										

# **Monthly Forecast Verification:**

1. The mean weekly/monthly/seasonal deterministic forecast verification is carried out for 3 × 3 contingency table for rainfall and 2× 2 contingency table for temperature (Minimum and Maximum).

Skill score for mean weekly rainfall

			Observed			
		Above Normal	Normal	Below Normal	Total	
Forecast	Above Normal	a	b	С	A	
	Normal	d	e	f	В	
	Below Normal	g	h	i	С	
	Total	D	Е	F	G	
	Hits=a+e, Misses= b+d+h, False=c+f+g, Correct Negative=i					

Sr.No.	Skill	Formula
1	Accuracy (ACC)	Hits + Corret Negatives
		Total
2	Bias score (BIAS)	Hits + False Alarms
		Hits + Misses
3	Probability of detection (POD)	Hits
		Hits + Misses
4	False alarm ratio (FAR)	False Alarms
		Hits + False Alarms

5	Critical success index (CSI)	Hits		
		Hits + Misses + False Alarms		
6	Success ratio (SR)	Hits		
		Hits + False Alarms		
7	Miss ratio (SR)	Misses		
		Hits + Misses		

#### Criteria for calculation the deviation from normal for RF:

Above Normal (20% or more) Normal (-19% to 19%) Below Normal (-20% or less)

### 2. Skill score for mean weekly for temperature (Minimum and Maximum)

		Observed				
		Below Normal	Above Normal			
cast	Below Normal	a	b			
Forecast	Above Normal	С	d			
	Forecast accuracy = $(a+d)/(a+b+c+d)$					
	Bias score (BIAS) =(b-c)/(b+c); BIAS< Underforecast; BIAS> Overfore					

#### Criteria for calculation the deviation from normal for Temp:

Above Normal (+1.6 or more) Normal (-1.5 to +1.5) Below Normal (-1.6 or less)

Similar table for seasonal may also be prepared by combining various months in the seasons.

# **Verification of the Agromet Advisory issued by units:**

		Rainfall (mm)	Tmax (°C)	Tmin (°C)	Warning (If any)
First	5 days forecast				
(cum	ulative)				
Subs	equent week forecast				
1a.	Advisory (crop,				
	horticulture, livestock and				
	block specific)				
1b.	Importance of subsequent				
	week forecast in agromet				
	advisory generation				
2a					
2b					
3a					
3b					

This needs to be done for other dates of advisory issued.