

Climate data of Pattambi station (1983-2017)

Latitude	10.8 N
Longitude	76.18 E
Altitude	63 m

Sl no.	Month	Max Temp (° C)	Min Temp (° C)	RH %	Wind speed (km/hr)	Sunshine (hr)	Rainfall
1	Jan	33.3	20.48	58.5	5.81	8.61	10.759
2	Feb	35.28	21.05	61	4.81	8.86	8.666
3	Mar	36.11	23.36	62.5	4	8.5	14.175
4	Apr	35.28	24.53	71.85	3.22	7.9	66.276
5	May	33.75	24.71	76.75	3.08	7.25	152.179
6	Jun	30.2	23.43	84.75	2.64	4.47	603.833
7	Jul	29.44	22.88	83.5	3.13	3.35	572.096
8	Aug	29.61	23.09	83	3.49	4.44	358.42
9	Sep	30.47	23.61	80.25	3.13	5.76	236.25
10	Oct	31.2	23.26	79	2.08	5.62	255.071
11	Nov	32.2	22.22	73.5	2.83	6.65	89.544
12	Dec	32.12	21.04	69.25	5.17	7.85	19.297

Soil Data

Type	Laterite
Total available soil water content	200mm/m
Maximum infiltration rate	40mm/day
Maximum rooting depth	900cm
Initial soil water content	200mm/m

Crop data for banana

Date of sowing	01-Jun
Harvesting date	31-May

Crop parameter	Initial	Development	Mid season	Late	Total
Kc	1	1.2	1.2	1.1	
Length in days	120	60	180	5	365
Rooting depth	0.9		0.9		
Critical depletion factor	0.55		0.45	0.45	
Yield response factor	1	1	1	1	1
Crop height		4			

To understand the theory of irrigation scheduling using CROPWAT, please refer to the documents.