

HydroCrop Management Report

Run #1 - Eg

Executive Summary

Metric	Value
Final yield (kg/ha)	602.646
Final biomass (kg/ha)	4017.64
Maturity date	2018-08-14
Total rainfall (mm)	39.65
Total irrigation (mm)	0.0
Max water stress	0.0
Heat stress days	0

Data Quality Flags

No quality warnings.

Diagnostics

Metric	Value
SowingDate	2018-05-02
CanopyPeakDate	2018-08-14
SenescenceStartDate	None
MaturityDate	2018-08-14
DaysToMaturity	105
HeatStressDays	0
SevereHeatDays	0
WaterStressDays	0
SevereWaterStressDays	0
HighARIDDays	17
LongestHeatStreak	0
LongestWaterStressStreak	0

Parameters

Group	Parameter	Value
species	Species	banana
species	Tbase	10.0
species	Topt	25.0
species	RUE	0.8
species	I50maxH	100.0
species	I50maxW	5.0

Group	Parameter	Value
species	MaxT	34.0
species	ExtremeT	45.0
species	CO2_RUE	0.07
species	S_Water	2.5
cultivar	Species	banana
cultivar	Cultivar	Prata An?
cultivar	Tsum	6600.0
cultivar	HI	0.15
cultivar	I50A	600.0
cultivar	I50B	500.0
soil	SoilName	Sandy loam1
soil	AWC	0.14
soil	RCN	75.0
soil	DDC	0.6
soil	RZD	1900.0
soil	WUC	0.096
management	Crop	banana
management	Cultivar	Prata An?
management	RunName	Eg
management	LocationName	Eg
management	SowingDate	2018-05-02
management	HarvestDate	2018-08-14
management	CO2	415.0
management	Water	False
management	StrictTsumYield	False
management	InitialBio	1.0
management	InitialTT	0.0
management	InitialFsolar	0.001
management	MaxIntercept	0.95
management	ET0Model	auto
management	IrrigationSchedule	

Scenario Comparison

Scenario	Yield	Biomass	YieldChangePct	BiomassChangePct	Duration
baseline	602.646	4017.64	0.0	0.0	105
Temperature +1 °C	734.944	4899.63	21.95	21.95	105
Temperature +2 °C	865.433	5769.552	43.61	43.61	105
Temperature +3 °C	993.271	6621.809	64.82	64.82	105
Temperature +4 °C	1102.562	7350.412	82.95	82.95	105
Temperature +5 °C	1182.574	7883.827	96.23	96.23	105

Scenario	Yield	Biomass	YieldChangePct	BiomassChangePct	Duration
CO2 +100 ppm	642.985	4286.569	6.69	6.69	105
CO2 +200 ppm	683.325	4555.498	13.39	13.39	105
Rainfall x0.8	602.646	4017.64	0.0	0.0	105
Rainfall x1.2	602.646	4017.64	0.0	0.0	105