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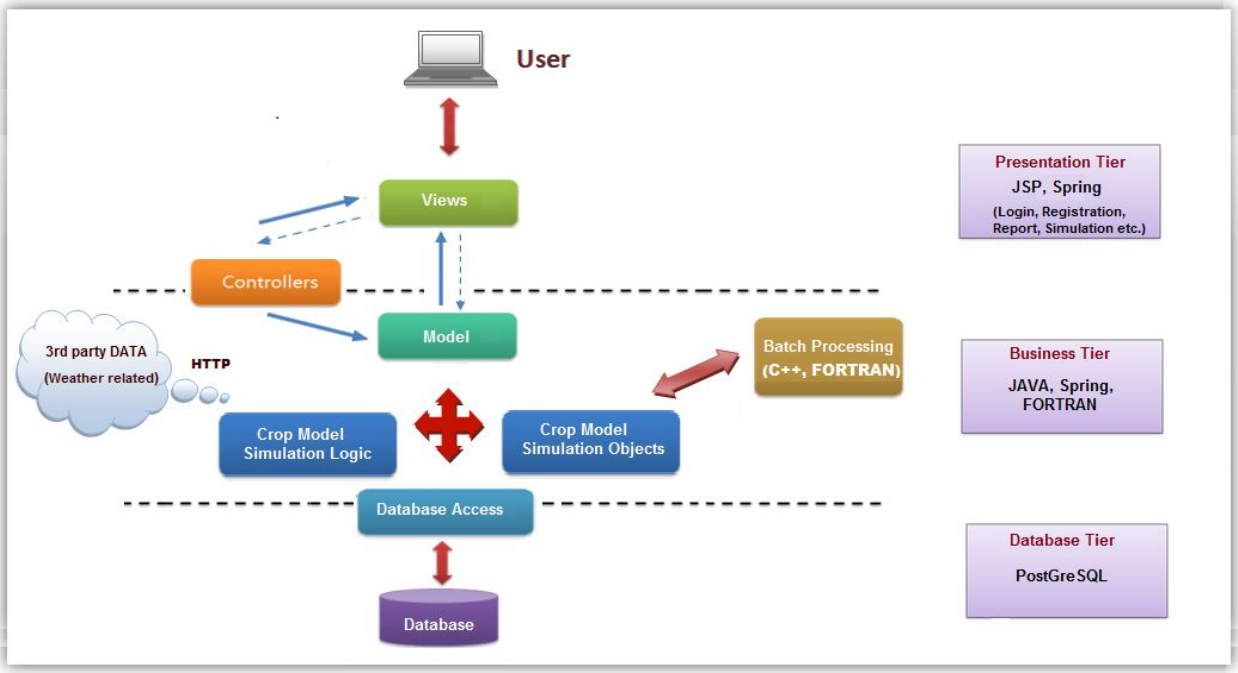
CLIMATE CHANGE:

PREDICTING CROP BEHAVIOR: DSSAT



MAIZE CROP RUN OVER PREDICTIVE RAINFALL

SOIL TYPE I: SANDY CLAY LOAM SOIL

Coordinates: 17.5, 77.5

SANDY CLAY LOAM (17.5, 77.5)

CROP GROWTH DATE	AGE	STAGE	BIOMASS kg/ha	LAI	LEAF NUM	CROP N kg/ha	CROP N %	STRESS H2O	STRESS N
1 JUN	0	Start Sim	0	0.00	0.0	0	0.0	0.00	0.00
20 JUN	0	Sowing	0	0.00	0.0	0	0.0	0.00	0.00
21 JUN	1	Germinate	0	0.00	0.0	0	0.0	0.00	0.00
25 JUN	5	Emergence	29	0.00	2.2	1	4.4	0.00	0.00
7 JUL	17	End Juveni	147	0.30	8.0	6	4.0	0.07	0.00
12 JUL	22	Floral Ini	173	0.28	10.1	10	5.5	0.89	0.01
16 AUG	57	75% Silkin	1196	0.37	20.8	32	2.6	0.86	0.02
25 AUG	66	Beg Gr Fil	2390	0.29	20.8	36	1.5	0.66	0.02
3 OCT	105	End Gr Fil	8069	0.09	20.8	109	1.4	0.67	0.07
6 OCT	108	Maturity	8069	0.09	20.8	109	1.4	0.96	0.33
6 OCT	108	Harvest	8069	0.09	20.8	109	1.4	0.00	0.00

*MAIN GROWTH AND DEVELOPMENT VARIABLES

@	VARIABLE	SIMULATED	MEASURED
	Anthesis day (dap)	57	-99
	Physiological maturity day (dap)	108	-99
	Yield at harvest maturity (kg [dm]/	6144	-99
	Number at maturity (no/m2)	3311	-99
	Unit wt at maturity (g [dm]/unit)	0.1856	-99
	Number at maturity (no/unit)	459.9	-99
	Tops weight at maturity (kg [dm]/ha	8069	-99
	By-product produced (stalk) at matu	1943	-99
	Leaf area index, maximum	0.51	-99
	Harvest index at maturity	0.761	-99
	Grain N at maturity (kg/ha)	103	-99
	Tops N at maturity (kg/ha)	109	-99
	Stem N at maturity (kg/ha)	6	-99
	Grain N at maturity (%)	1.7	-99
	Tops weight at anthesis (kg [dm]/ha	1200	-99
	Tops N at anthesis (kg/ha)	32	-99
	Leaf number per stem at maturity	20.76	-99

*RUN 1 : RAINFED LOW NITROGEN ... Press < ENTER > key to continue

Maize YIELD : **6144 kg/ha** [Dry weight]

Coordinates: 17.5, 78.5

SANDY CLAY LOAM (17.5, 78.5)

CROP GROWTH DATE	AGE	STAGE	BIOMASS kg/ha	LAI	LEAF NUM	CROP N kg/ha	CROP N %	STRESS H2O	STRESS N
1 JUN	0	Start Sim	0	0.00	0.0	0	0.0	0.00	0.00
22 JUN	0	Sowing	0	0.00	0.0	0	0.0	0.00	0.00
23 JUN	1	Germinate	0	0.00	0.0	0	0.0	0.00	0.00
27 JUN	5	Emergence	29	0.00	2.1	1	4.4	0.00	0.00
9 JUL	17	End Juveni	112	0.22	7.9	5	4.1	0.18	0.00
14 JUL	22	Floral Ini	162	0.27	10.1	7	4.6	0.79	0.01
18 AUG	57	75% Silkin	1505	0.44	20.7	36	2.4	0.84	0.02
27 AUG	66	Beg Gr Fil	2028	0.32	20.7	37	1.8	0.83	0.02
5 OCT	105	End Gr Fil	6213	0.09	20.7	99	1.6	0.73	0.00
8 OCT	108	Maturity	6213	0.09	20.7	99	1.6	0.96	0.00
8 OCT	108	Harvest	6213	0.09	20.7	99	1.6	0.00	0.00

*MAIN GROWTH AND DEVELOPMENT VARIABLES

@	VARIABLE	SIMULATED	MEASURED
	Anthesis day (dap)	57	-99
	Physiological maturity day (dap)	108	-99
	Yield at harvest maturity (kg [dm]/	4582	-99
	Number at maturity (no/m2)	2519	-99
	Unit wt at maturity (g [dm]/unit)	0.1819	-99
	Number at maturity (no/unit)	349.8	-99
	Tops weight at maturity (kg [dm]/ha	6213	-99
	By-product produced (stalk) at matu	1650	-99
	Leaf area index, maximum	0.62	-99
	Harvest index at maturity	0.737	-99
	Grain N at maturity (kg/ha)	84	-99
	Tops N at maturity (kg/ha)	99	-99
	Stem N at maturity (kg/ha)	15	-99
	Grain N at maturity (%)	1.8	-99
	Tops weight at anthesis (kg [dm]/ha	1406	-99
	Tops N at anthesis (kg/ha)	36	-99
	Leaf number per stem at maturity	20.74	-99

*RUN 1 : RAINFED LOW NITROGEN ... Press < ENTER > key to continue

Maize YIELD : **4582 kg/ha** [Dry weight]

Coordinates: 18.5, 78.5

SANDY CLAY LOAM (18.5, 78.5)

CROP FAILED

SOIL TYPE II: SANDY LOAM SOIL

SANDY LOAM (17.5, 77.5)

CROP GROWTH DATE	AGE	STAGE	BIOMASS kg/ha	LAI	LEAF NUM	CROP N kg/ha	%	STRESS H2O	N
1 JUN	0	Start Sim	0	0.00	0.0	0	0.0	0.00	0.00
11 JUN	0	Sowing	0	0.00	0.0	0	0.0	0.00	0.00
12 JUN	1	Germinate	0	0.00	0.0	0	0.0	0.00	0.00
16 JUN	5	Emergence	29	0.00	2.1	1	4.4	0.00	0.00
28 JUN	17	End Juveni	156	0.32	8.0	6	3.7	0.06	0.00
3 JUL	22	Floral Ini	191	0.32	10.2	10	5.0	0.86	0.01
7 AUG	57	75% Silkin	1332	0.44	21.1	35	2.6	0.84	0.02
16 AUG	66	Beg Gr Fil	2088	0.33	21.1	46	2.2	0.77	0.02
24 SEP	105	End Gr Fil	8719	0.13	21.1	140	1.6	0.60	0.00
27 SEP	108	Maturity	8719	0.13	21.1	140	1.6	0.93	0.00
27 SEP	108	Harvest	8719	0.13	21.1	140	1.6	0.00	0.00

*MAIN GROWTH AND DEVELOPMENT VARIABLES

@ VARIABLE	SIMULATED	MEASURED
Anthesis day (dap)	57	-99
Physiological maturity day (dap)	108	-99
Yield at harvest maturity (kg [dm]/	6794	-99
Number at maturity (no/m2)	3268	-99
Unit wt at maturity (g [dm]/unit)	0.2079	-99
Number at maturity (no/unit)	453.9	-99
Tops weight at maturity (kg [dm]/ha	8719	-99
By-product produced (stalk) at matu	1946	-99
Leaf area index, maximum	0.76	-99
Harvest index at maturity	0.779	-99
Grain N at maturity (kg/ha)	123	-99
Tops N at maturity (kg/ha)	140	-99
Stem N at maturity (kg/ha)	17	-99
Grain N at maturity (%)	1.8	-99
Tops weight at anthesis (kg [dm]/ha	1338	-99
Tops N at anthesis (kg/ha)	35	-99
Leaf number per stem at maturity	21.06	-99

*RUN 1 : RAINFED LOW NITROGEN ... Press < ENTER > key to continue

Maize YIELD : **6794 kg/ha** [Dry weight]

SANDY LOAM (17.5, 78.5)

CROP GROWTH DATE	AGE	STAGE	BIOMASS kg/ha	LAI	LEAF NUM	CROP N kg/ha	%	STRESS H2O	N
1 JUN	0	Start Sim	0	0.00	0.0	0	0.0	0.00	0.00
7 JUN	0	Sowing	0	0.00	0.0	0	0.0	0.00	0.00
8 JUN	1	Germinate	0	0.00	0.0	0	0.0	0.00	0.00
12 JUN	5	Emergence	29	0.00	2.1	1	4.4	0.00	0.00
24 JUN	17	End Juveni	113	0.24	8.0	3	2.9	0.32	0.00
29 JUN	22	Floral Ini	163	0.29	10.2	7	4.3	0.80	0.01
3 AUG	57	75% Silkin	1333	0.41	21.1	36	2.7	0.85	0.02
12 AUG	66	Beg Gr Fil	1610	0.28	21.1	36	2.2	0.90	0.02
20 SEP	105	End Gr Fil	4639	0.09	21.1	69	1.5	0.64	0.00
23 SEP	108	Maturity	4639	0.09	21.1	69	1.5	0.00	0.00
23 SEP	108	Harvest	4639	0.09	21.1	69	1.5	0.00	0.00

*MAIN GROWTH AND DEVELOPMENT VARIABLES

@ VARIABLE	SIMULATED	MEASURED
Anthesis day (dap)	57	-99
Physiological maturity day (dap)	108	-99
Yield at harvest maturity (kg [dm]/	3088	-99
Number at maturity (no/m2)	1588	-99
Unit wt at maturity (g [dm]/unit)	0.1945	-99
Number at maturity (no/unit)	220.5	-99
Tops weight at maturity (kg [dm]/ha	4639	-99
By-product produced (stalk) at matu	1569	-99
Leaf area index, maximum	0.52	-99
Harvest index at maturity	0.666	-99
Grain N at maturity (kg/ha)	56	-99
Tops N at maturity (kg/ha)	69	-99
Stem N at maturity (kg/ha)	13	-99
Grain N at maturity (%)	1.8	-99
Tops weight at anthesis (kg [dm]/ha	1331	-99
Tops N at anthesis (kg/ha)	34	-99
Leaf number per stem at maturity	21.06	-99

*RUN 1 : RAINFED LOW NITROGEN ... Press < ENTER > key to continue

Maize YIELD : **3088 kg/ha** [Dry weight]

SANDY LOAM (18.5, 78.5)

CROP GROWTH DATE	AGE	STAGE	BIOMASS kg/ha	LAI	LEAF NUM	CROP N kg/ha	%	STRESS H2O	N
1 JUN	0	Start Sim	0	0.00	0.0	0	0.0	0.00	0.00
7 JUN	0	Sowing	0	0.00	0.0	0	0.0	0.00	0.00
8 JUN	1	Germinate	0	0.00	0.0	0	0.0	0.00	0.00
12 JUN	5	Emergence	29	0.00	2.1	1	4.4	0.00	0.00
24 JUN	17	End Juveni	128	0.26	8.0	4	3.0	0.20	0.00
29 JUN	22	Floral Ini	213	0.37	10.2	9	4.3	0.66	0.01
3 AUG	57	75% Silkin	1477	0.54	21.1	38	2.6	0.86	0.02
12 AUG	66	Beg Gr Fil	1995	0.38	21.1	45	2.2	0.84	0.02
20 SEP	105	End Gr Fil	7239	0.16	21.1	114	1.6	0.55	0.00
23 SEP	108	Maturity	7239	0.16	21.1	114	1.6	0.00	0.00
23 SEP	108	Harvest	7239	0.16	21.1	114	1.6	0.00	0.00

*MAIN GROWTH AND DEVELOPMENT VARIABLES

@ VARIABLE	SIMULATED	MEASURED
Anthesis day (dap)	57	-99
Physiological maturity day (dap)	108	-99
Yield at harvest maturity (kg [dm]/	5344	-99
Number at maturity (no/m2)	2497	-99
Unit wt at maturity (g [dm]/unit)	0.2140	-99
Number at maturity (no/unit)	346.8	-99
Tops weight at maturity (kg [dm]/ha	7239	-99
By-product produced (stalk) at matu	1919	-99
Leaf area index, maximum	0.91	-99
Harvest index at maturity	0.738	-99
Grain N at maturity (kg/ha)	97	-99
Tops N at maturity (kg/ha)	114	-99
Stem N at maturity (kg/ha)	17	-99
Grain N at maturity (%)	1.8	-99
Tops weight at anthesis (kg [dm]/ha	1488	-99
Tops N at anthesis (kg/ha)	36	-99
Leaf number per stem at maturity	21.06	-99

*RUN 1 : RAINFED LOW NITROGEN ... Press < ENTER > key to continue

Maize YIELD : **5344 kg/ha** [Dry weight]

SOIL TYPE III: CLAY SOIL

CLAY SOIL (17.5, 77.5)

CROP GROWTH DATE	AGE	STAGE	BIOMASS kg/ha	LAI	LEAF NUM	CROP N kg/ha	%	STRESS H2O	N
1 JUN	0	Start Sim	0	0.00	0.0	0	0.0	0.00	0.00
20 JUN	0	Sowing	0	0.00	0.0	0	0.0	0.00	0.00
21 JUN	1	Germinate	0	0.00	0.0	0	0.0	0.00	0.00
25 JUN	5	Emergence	29	0.00	2.2	1	4.4	0.00	0.00
7 JUL	17	End Juveni	147	0.30	8.0	6	4.0	0.07	0.00
12 JUL	22	Floral Ini	172	0.28	10.1	9	5.5	0.89	0.01
16 AUG	57	75% Silkin	1267	0.39	20.8	33	2.6	0.85	0.02
25 AUG	66	Beg Gr Fil	2389	0.31	20.8	36	1.5	0.68	0.02
3 OCT	105	End Gr Fil	8260	0.09	20.8	109	1.3	0.68	0.10
6 OCT	108	Maturity	8260	0.09	20.8	109	1.3	0.96	0.42
6 OCT	108	Harvest	8260	0.09	20.8	109	1.3	0.00	0.00

*MAIN GROWTH AND DEVELOPMENT VARIABLES

@	VARIABLE	SIMULATED	MEASURED
	Anthesis day (dap)	57	-99
	Physiological maturity day (dap)	108	-99
	Yield at harvest maturity (kg [dm]/	6322	-99
	Number at maturity (no/m2)	3464	-99
	Unit wt at maturity (g [dm]/unit)	0.1825	-99
	Number at maturity (no/unit)	481.1	-99
	Tops weight at maturity (kg [dm]/ha	8260	-99
	By-product produced (stalk) at matu	1957	-99
	Leaf area index, maximum	0.55	-99
	Harvest index at maturity	0.765	-99
	Grain N at maturity (kg/ha)	103	-99
	Tops N at maturity (kg/ha)	109	-99
	Stem N at maturity (kg/ha)	6	-99
	Grain N at maturity (%)	1.6	-99
	Tops weight at anthesis (kg [dm]/ha	1273	-99
	Tops N at anthesis (kg/ha)	33	-99
	Leaf number per stem at maturity	20.76	-99

*RUN 1 : RAINFED HIGH NITROGEN... Press < ENTER > key to continue

Maize YIELD : **6322 kg/ha** [Dry weight]

CLAY SOIL (17.5, 78.5)

CROP GROWTH DATE	AGE	STAGE	BIOMASS kg/ha	LAI	LEAF NUM	CROP N kg/ha	%	STRESS H2O	N
1 JUN	0	Start Sim	0	0.00	0.0	0	0.0	0.00	0.00
22 JUN	0	Sowing	0	0.00	0.0	0	0.0	0.00	0.00
23 JUN	1	Germinate	0	0.00	0.0	0	0.0	0.00	0.00
27 JUN	5	Emergence	29	0.00	2.1	1	4.4	0.00	0.00
9 JUL	17	End Juveni	112	0.22	7.9	5	4.1	0.18	0.00
14 JUL	22	Floral Ini	162	0.27	10.1	7	4.6	0.79	0.01
18 AUG	57	75% Silkin	1505	0.44	20.7	36	2.4	0.84	0.02
27 AUG	66	Beg Gr Fil	2028	0.32	20.7	37	1.8	0.83	0.02
5 OCT	105	End Gr Fil	6213	0.09	20.7	99	1.6	0.73	0.00
8 OCT	108	Maturity	6213	0.09	20.7	99	1.6	0.96	0.00
8 OCT	108	Harvest	6213	0.09	20.7	99	1.6	0.00	0.00

*MAIN GROWTH AND DEVELOPMENT VARIABLES

@	VARIABLE	SIMULATED	MEASURED
	Anthesis day (dap)	57	-99
	Physiological maturity day (dap)	108	-99
	Yield at harvest maturity (kg [dm]/	4582	-99
	Number at maturity (no/m2)	2519	-99
	Unit wt at maturity (g [dm]/unit)	0.1819	-99
	Number at maturity (no/unit)	349.8	-99
	Tops weight at maturity (kg [dm]/ha	6213	-99
	By-product produced (stalk) at matu	1650	-99
	Leaf area index, maximum	0.62	-99
	Harvest index at maturity	0.737	-99
	Grain N at maturity (kg/ha)	84	-99
	Tops N at maturity (kg/ha)	99	-99
	Stem N at maturity (kg/ha)	15	-99
	Grain N at maturity (%)	1.8	-99
	Tops weight at anthesis (kg [dm]/ha	1406	-99
	Tops N at anthesis (kg/ha)	36	-99
	Leaf number per stem at maturity	20.74	-99

*RUN 1 : RAINFED LOW NITROGEN ... Press < ENTER > key to continue

Maize YIELD : **4582 kg/ha** [Dry weight]

CLAY SOIL (18.5, 78.5)

CROP GROWTH DATE	AGE	STAGE	BIOMASS kg/ha	LAI	LEAF NUM	CROP N kg/ha	%	STRESS H2O	N
1 JUN	0	Start Sim	0	0.00	0.0	0	0.0	0.00	0.00
15 JUN	0	Sowing	0	0.00	0.0	0	0.0	0.00	0.00
16 JUN	1	Germinate	0	0.00	0.0	0	0.0	0.00	0.00
20 JUN	5	Emergence	29	0.00	2.1	1	4.4	0.00	0.00
2 JUL	17	End Juveni	136	0.27	8.0	6	4.1	0.11	0.00
7 JUL	22	Floral Ini	199	0.34	10.2	9	4.4	0.76	0.01
11 AUG	57	75% Silkin	1371	0.42	21.1	35	2.5	0.85	0.02
20 AUG	66	Beg Gr Fil	2149	0.31	21.1	44	2.1	0.77	0.02
28 SEP	105	End Gr Fil	8418	0.12	21.1	136	1.6	0.62	0.00
1 OCT	108	Maturity	8418	0.12	21.1	136	1.6	0.97	0.00
1 OCT	108	Harvest	8418	0.12	21.1	136	1.6	0.00	0.00

*MAIN GROWTH AND DEVELOPMENT VARIABLES

@	VARIABLE	SIMULATED	MEASURED
	Anthesis day (dap)	57	-99
	Physiological maturity day (dap)	108	-99
	Yield at harvest maturity (kg [dm]/	6664	-99
	Number at maturity (no/m2)	3328	-99
	Unit wt at maturity (g [dm]/unit)	0.2002	-99
	Number at maturity (no/unit)	462.2	-99
	Tops weight at maturity (kg [dm]/ha	8418	-99
	By-product produced (stalk) at matu	1774	-99
	Leaf area index, maximum	0.61	-99
	Harvest index at maturity	0.792	-99
	Grain N at maturity (kg/ha)	121	-99
	Tops N at maturity (kg/ha)	136	-99
	Stem N at maturity (kg/ha)	15	-99
	Grain N at maturity (%)	1.8	-99
	Tops weight at anthesis (kg [dm]/ha	1272	-99
	Tops N at anthesis (kg/ha)	29	-99
	Leaf number per stem at maturity	21.08	-99

*RUN 1 : RAINFED LOW NITROGEN ... Press < ENTER > key to continue

YIELD : **6664 kg/ha** [Dry weight]

SOIL TYPE IV: LOAMY SOIL

LOAM SOIL (17.5, 77.5)

CROP FAILED

LOAM SOIL (17.5, 78.5)

CROP DATE	GROWTH AGE	STAGE	BIOMASS kg/ha	LAI	LEAF NUM	CROP N kg/ha	%	STRESS H2O	N
1 JUN	0	Start Sim	0	0.00	0.0	0	0.0	0.00	0.00
7 JUN	0	Sowing	0	0.00	0.0	0	0.0	0.00	0.00
8 JUN	1	Germinate	0	0.00	0.0	0	0.0	0.00	0.00
12 JUN	5	Emergence	29	0.00	2.1	1	4.4	0.00	0.00
24 JUN	17	End Juveni	92	0.19	8.0	3	3.2	0.34	0.00
29 JUN	22	Floral Ini	190	0.34	10.2	7	3.6	0.61	0.01
3 AUG	57	75% Silkin	1266	0.38	21.1	17	1.3	0.84	0.08
12 AUG	66	Beg Gr Fil	1932	0.27	21.1	18	0.9	0.83	0.09
20 SEP	105	End Gr Fil	3181	0.06	21.1	22	0.7	0.67	0.30
23 SEP	108	Maturity	3181	0.06	21.1	22	0.7	0.00	0.67
23 SEP	108	Harvest	3181	0.06	21.1	22	0.7	0.00	0.00

*MAIN GROWTH AND DEVELOPMENT VARIABLES

@	VARIABLE	SIMULATED	MEASURED
	Anthesis day (dap)	57	-99
	Physiological maturity day (dap)	108	-99
	Yield at harvest maturity (kg [dm]/	1420	-99
	Number at maturity (no/m2)	667	-99
	Unit wt at maturity (g [dm]/unit)	0.2129	-99
	Number at maturity (no/unit)	92.6	-99
	Tops weight at maturity (kg [dm]/ha	3181	-99
	By-product produced (stalk) at matu	1780	-99
	Leaf area index, maximum	0.55	-99
	Harvest index at maturity	0.446	-99
	Grain N at maturity (kg/ha)	16	-99
	Tops N at maturity (kg/ha)	22	-99
	Stem N at maturity (kg/ha)	6	-99
	Grain N at maturity (%)	1.1	-99
	Tops weight at anthesis (kg [dm]/ha	1270	-99
	Tops N at anthesis (kg/ha)	16	-99
	Leaf number per stem at maturity	21.06	-99

*RUN 1 : RAINFED LOW NITROGEN ... Press < ENTER > key to continue

YIELD : **1420 kg/ha** [Dry weight]

LOAM SOIL (18.5, 78.5)

CROP DATE	GROWTH AGE	STAGE	BIOMASS kg/ha	LAI	LEAF NUM	CROP N kg/ha	%	STRESS H2O	N
1 JUN	0	Start Sim	0	0.00	0.0	0	0.0	0.00	0.00
7 JUN	0	Sowing	0	0.00	0.0	0	0.0	0.00	0.00
8 JUN	1	Germinate	0	0.00	0.0	0	0.0	0.00	0.00
12 JUN	5	Emergence	29	0.00	2.1	1	4.4	0.00	0.00
24 JUN	17	End Juveni	87	0.17	8.0	3	3.9	0.33	0.00
29 JUN	22	Floral Ini	199	0.35	10.2	7	3.7	0.53	0.01
3 AUG	57	75% Silkin	1794	0.62	21.1	18	1.0	0.80	0.12
12 AUG	66	Beg Gr Fil	2471	0.42	21.1	19	0.8	0.80	0.20
20 SEP	105	End Gr Fil	3445	0.09	21.1	22	0.6	0.58	0.33
23 SEP	108	Maturity	3445	0.09	21.1	22	0.6	0.00	0.47
23 SEP	108	Harvest	3445	0.09	21.1	22	0.6	0.00	0.00

*MAIN GROWTH AND DEVELOPMENT VARIABLES

@	VARIABLE	SIMULATED	MEASURED
	Anthesis day (dap)	57	-99
	Physiological maturity day (dap)	108	-99
	Yield at harvest maturity (kg [dm]/	1177	-99
	Number at maturity (no/m2)	489	-99
	Unit wt at maturity (g [dm]/unit)	0.2406	-99
	Number at maturity (no/unit)	68.0	-99
	Tops weight at maturity (kg [dm]/ha	3445	-99
	By-product produced (stalk) at matu	2293	-99
	Leaf area index, maximum	0.91	-99
	Harvest index at maturity	0.342	-99
	Grain N at maturity (kg/ha)	12	-99
	Tops N at maturity (kg/ha)	22	-99
	Stem N at maturity (kg/ha)	10	-99
	Grain N at maturity (%)	1.0	-99
	Tops weight at anthesis (kg [dm]/ha	1805	-99
	Tops N at anthesis (kg/ha)	18	-99
	Leaf number per stem at maturity	21.06	-99

*RUN 1 : RAINFED LOW NITROGEN ... Press < ENTER > key to continue

Maize YIELD : **1177 kg/ha** [Dry weight]