

Anexo VI (a) – Resultado do programa KCISA para a cultura precedente do milho-grão para a freguesia de Ferreira do Alentejo

inmi32.TXT

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*****  
*                               INPUT DATA                               *  
*****
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Meteorological Data Files:

32s.ETO 32s.PRE 32s.VEN 32s.TPI 32s.TPA
32s.NDA

Time step: Monthly ; Number of years: 51; First year: 1941

First month: January ; Last month: December

Wind Speed height measurement (m): 2.00

CROP TYPE: Annual field crop.

"Plant date": 1/ 1

"Harvest day" : 30/ 4

Maximum effective rooting depth (m): 1.10

Soil moisture depletion fraction for no stress, p tab. [0-1] : .90

Yield response factor, Ky: .00

SOIL Data:

Evaporation layer depth (mm): 125.0

% Sand: 48.0 % Silt: 21.0 % Clay: 31.0

Soil water content at Field capacity (% vol.): 31.0

Soil water content at Wilting point (% vol.): 19.0

INITIAL CONDITION:

Soil water content at the beginning of the initial period (% vol): 95.0

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*****  
*                               MIDLE RESULTS                               *  
*****
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1941 Initial Stage (from 1/ 1 to 30/ 4):

Average of the Reference Evapotransp. (mm/day): 1.69

Total of Precipitation (mm): 508.49

Number of rainfall events in the initial period: 48

Kc ini = 1.15 using the following values:

TEW = 10.00 mm; total evaporable water

REW = 4.61 mm; evaporable water on stage 1 drying

tw = 2.48 days; mean time interval between wetting events

Es0 = 1.95 mm/day; potential rate of evaporation

t1 = 2.37 days; time to complete stage 1

nw = 48; number of wetting events during initial period

fw = 1.0; average fraction of surface wetted by irrigation/prec.

(...)

1991 Initial Stage (from 1/ 1 to 30/ 4):

Average of the Reference Evapotransp. (mm/day): 1.89

Total of Precipitation (mm): 267.28

Number of rainfall events in the initial period: 35

Kc ini = 1.04 using the following values:

TEW = 10.00 mm; total evaporable water
REW = 4.37 mm; evaporable water on stage 1 drying
tw = 3.40 days; mean time interval between wetting events
Es0 = 2.17 mm/day; potential rate of evaporation
t1 = 2.01 days; time to complete stage 1
nw = 35; number of wetting events during initial period
fw = 1.0; average fraction of surface wetted by irrigation/prec.

YEAR	KCini	Pini
1941	1.15	.90
1942	1.06	.90
1943	.88	.90
1944	.64	.90
1945	.59	.90
1946	.97	.90
1947	1.11	.90
1948	.92	.90
1949	.57	.90
1950	.78	.90
1951	1.02	.90
1952	.90	.90
1953	.92	.90
1954	.85	.90
1955	1.05	.90
1956	1.10	.90
1957	.95	.90
1958	.89	.90
1959	.94	.90
1960	1.06	.90
1961	.73	.90
1962	.85	.90
1963	1.10	.90
1964	1.01	.90
1965	.87	.90
1966	1.06	.90
1967	.91	.90
1968	.93	.90
1969	1.09	.90
1970	.96	.90
1971	1.07	.90
1972	1.07	.90
1973	.58	.90
1974	1.09	.90
1975	1.07	.90
1976	.92	.90
1977	1.05	.90
1978	1.02	.90
1979	1.10	.90
1980	.78	.90
1981	.73	.90
1982	.92	.90
1983	.67	.90
1984	.80	.90
1985	1.07	.90
1986	1.04	.90
1987	1.03	.90
1988	.88	.90
1989	.86	.90
1990	.84	.90
1991	1.04	.90

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*****  
*                               FINAL RESULTS (average)                               *  
*****
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Initial Period, from 1/ 1 to 30/ 4:  
Kc ini = .93  
p = .90  
Zr = 1.1
```