Bibliography of Agricultural Climatology: Part I

University of Tennessee Agricultural Experiment Station

Joanne Logan

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Bibliography of Agricultural Climatology

PART I

Field Crops
Vegetables
Fruit Crops
Trees
Turf
Forages
Pastures
Hay
Livestock

Joanne Logan

Department of Plant and Soil Science
BIBLIOGRAPHY OF AGRICULTURAL CLIMATOLOGY

PART I

FIELD CROPS, VEGETABLES, FRUIT CROPS, TREES,
TURF, FORAGES, PASTURE, HAY, AND LIVESTOCK

Joanne Logan
Assistant Professor
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INTRODUCTION

This bibliography of the agricultural climatology literature includes many aspects of the broad field of agricultural climatology. Much overlapping with related fields occurs. Topics related to agricultural climatology include crop and animal physiology, agricultural meteorology, general climatology and meteorology, and statistics. This bibliography was created to help researchers and students interested in obtaining historical and current literature in the field of agricultural climatology. The period of record of these references is 1735 - 1987.

This bibliography is divided into two parts. This volume, Part I, deals with agroclimatological topics for field crops such as cotton, maize, millet, rice, sorghum, soybeans, sunflower; horticultural crops such as vegetables, fruits and turf; forages, pasture, and hay; and livestock. Part II deals with more general and non-crop-specific topics in agricultural climatology such as water, drought, evaporation and evapotranspiration, crop water use and requirements, temperature and solar radiation, heat units, plant response to climatic stress, climatic normals and analysis, crop yield models and forecasting, climatic and agroclimatic classification, agrometeorology, phenology, agroclimatic information gathering and dissemination, agroclimatic assessments, and statistics and computers in agroclimatology.

The entire bibliography (Parts I and II) is continually updated and available in Professional File\(^1\) and Lotus 123\(^2\) formats for the IBM PC\(^3\) and can be obtained by sending a 5 1/4" or 3 1/2" diskette to the author. A list of keywords is included as Appendix A for use in file searches.

\(^1\)Registered trademark of the Software Publishing Company.

\(^2\)Registered trademark of the Lotus Development Corporation.

\(^3\)Registered trademark of the International Business Machine Corporation.
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<td>Agric. For. Meteorol.</td>
<td>Agricultural and Forest Meteorology</td>
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<td>Agric. Meteorol.</td>
<td>Agricultural Meteorology</td>
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<tr>
<td>Agric. Water Manage.</td>
<td>Agricultural Water Management</td>
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<td>Agron. J.</td>
<td>Agronomy Journal</td>
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<td>*********</td>
<td>Agroplantae</td>
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<td>Amer. J. Bot.</td>
<td>American Journal of Botany</td>
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<tr>
<td>AMS</td>
<td>American Meteorological Society</td>
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<tr>
<td>Ann. Arid Zone</td>
<td>Annals of Arid Zone</td>
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<tr>
<td>ASAE</td>
<td>American Society of Agricultural Engineers</td>
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<td>Biometeorol.</td>
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<td>Calif. Agric.</td>
<td>California Agriculture</td>
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<td>*********</td>
<td>Canadian Agricultural Engineering</td>
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<td>Canner, The</td>
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<td>Econ. Geog.</td>
<td>Economic Geography</td>
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<td>Euphytica</td>
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<td>Food Packer</td>
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<tr>
<td>For. Sci.</td>
<td>Forest Science</td>
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<tr>
<td>Grass For. Sci.</td>
<td>Grass and Forage Science</td>
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<tr>
<td>HortSci.</td>
<td>HortScience</td>
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<tr>
<td>ICRI SAT</td>
<td>International Crops Research Institute for the Semi-Arid Tropics</td>
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<tr>
<td>Ind. J. Agric. Sci.</td>
<td>The Indian Journal of Agricultural Science</td>
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<td>Int. J. Biometeorol.</td>
<td>International Journal of Biometeorology</td>
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<td>Iowa State J. Res.</td>
<td>Iowa State Journal of Research</td>
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<td>Iowa State J. Sci.</td>
<td>Iowa State Journal of Science</td>
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<tr>
<td>IRRI</td>
<td>International Rice Research Institute</td>
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<td>Israel J. Agric. Res.</td>
<td>The Israel Journal of Agricultural Research</td>
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<td>J. Agric. Res.</td>
<td>Journal of Agricultural Research</td>
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Cotton:


Dry bean:


Maize:


Neild, R. E., and N. H. Richman. 1979. Simulation studies of corn hybrid-response. Res. Bull. 287, Agricultural Experiment Station, Univ. of Nebraska, Lincoln, NE.

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Seeley, M. W. 1978. The development and application of biological time scale models for field corn hybrids in Nebraska. Ph.D diss., Univ. of Nebraska, Lincoln, NE.


Peanut:


Potato:


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**Soybean:**


**Sugar beet:**


**Sunflower:**

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and temperature on phenological development and spikelet number of

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65:116-119.


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_____ . 1975. Wheat-yield estimates based on weather: research and


Multiple listing:


Neild, R. E., and M. W. Seeley. 1977. Growing degree day predictions for corn and sorghum development and some applications to crop production in Nebraska. Res. Bull. 380, Agricultural Experiment Station, Univ. of Nebraska, Lincoln, NE. 12 pp.


VEGETABLES

Asparagus:


Bean:


Cucumber:


Lettuce:


Pea:


Tomato:


Non-specific:


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Walls, E. P. 1950. Predicting maturity dates from temperature records. The
FRUIT CROPS

Apple:


Cherry:


Citrus:


Peach:


Pear:


Pineapple:


Tea:


Multiple listing:


TREES


TURF, FORAGES, PASTURE AND HAY


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APPENDIX A:

KEYWORDS USED IN COMPUTER SEARCHES
OF PROFESSIONAL FILE/LOTUS 123
KEYWORDS USED IN COMPUTER SEARCHES

agroclimatic analysis  heat stress
agroclimatic classification history
agroecology humidity
agrotechnology insects
alfalfa instrumentation
animals irrigation
barley leaf area index
beans light
beef lysimeters
climate maize
climate analysis maturity
climate forecast microclimate
climatic change millet
climatic classification Nebraska
climatic classification pasture
climate peanuts
climatic classification phenology
climate photosynthesis
climatic classification photoperiod
climate photosynthesis photosynthesis
climate photothermal units
climate planting date
climate planting density
climate potato
climate rainfall
climate rainfall analysis
climate rice
climate seedlings
climate semi-arid regions
climate shade tolerance
climate soil
climate soil moisture
climate soil temperature
climate solar radiation
climate solar-thermal units
climate sorghum
climate soybeans
climate statistics
climate sunflower
climate temperature
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climate tillers
climate tobacco
climate transpiration
climate tropics
climate vegetables
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climate waterlogging

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weather
weather information
wheat
wind
yield components