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## Bibliography of Agricultural Climatology: Part II

University of Tennessee Agricultural Experiment Station

Joanne Logan

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# Bibliography of Agricultural Climatology

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## PART II

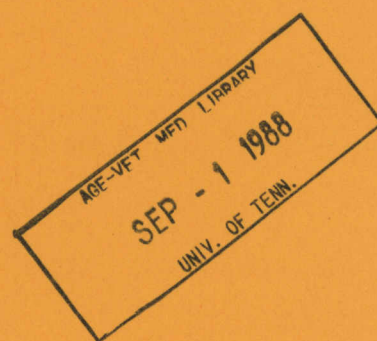
Water Temperature Light Plants Weather Climate

Crop Yield Models Forecasting Climatic Change

Variability Climatic and Agroclimatic Classification

Agrometeorological and Agroclimatological Information

Joanne Logan



Department of Plant and Soil Science

BIBLIOGRAPHY OF AGRICULTURAL CLIMATOLOGY

PART II

WATER, TEMPERATURE AND LIGHT

PLANTS, WEATHER AND CLIMATE

CROP YIELD MODELS AND FORECASTING

CLIMATIC CHANGE AND VARIABILITY

CLIMATIC AND AGROCLIMATIC CLASSIFICATION

AGROMETEOROLOGICAL AND AGROCLIMATOLOGICAL INFORMATION

Joanne Logan  
Assistant Professor

## CONTENTS

	PAGE
Introduction .....	1
List of journals and other sources and their abbreviations .	2
Water.....	5
Precipitation analysis .....	5
Plant-water relationships and drought resistance .....	8
Drought analysis and indices .....	9
Evaporation and evapotranspiration .....	11
Crop water use and requirements .....	14
Soil moisture .....	15
Temperature and light .....	15
Temperature and solar radiation analysis .....	15
Plant-temperature relationships .....	16
Plant-light and plant-daylength relationships .....	17
Plant-photo-temperature relationships .....	18
Heat units .....	18
Solar-thermal units .....	19
Chilling units and requirements .....	19
Freeze analysis and prediction .....	19
Water and temperature .....	21
Hydro-thermal units .....	21
Soil moisture and temperature .....	21
Plants, weather and climate .....	21
Plant response to climate and environmental stress ....	21
Climatic normals and analysis .....	21

Crop yield models and forecasting .....	22
Climatic change and variability .....	24
Climatic and agroclimatic classification .....	26
Climatology and climatic classification .....	26
Agroclimatology and agroclimatic classification .....	27
Agrotechnology transfer .....	29
Miscellaneous topics .....	29
Agrometeorology, weather and phenology .....	29
Agroclimatic information gathering and dissemination ..	31
Agroclimatic assessments - crops and growing seasons ..	31
Statistics and computers in agroclimatology .....	33
General topics in agroclimatology .....	34
Appendix A (List of keywords for computer search) .....	39

## 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. 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. This volume, 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<sup>1</sup> and Lotus 123<sup>2</sup> formats for the IBM PC<sup>3</sup> 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.

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<sup>2</sup>Registered trademark of the Lotus Development Corporation.

<sup>3</sup>Registered trademark of the International Business Machine Corporation.

LIST OF JOURNALS AND OTHER SOURCES AND THEIR ABBREVIATIONS

<u>Abbreviation</u>	<u>Proper name/source</u>
Adv. Agron.	Advances in Agronomy
AID	Agency for International Development
Agric. For. Meteorol.	Agricultural and Forest Meteorology
Agric. Meteorol.	Agricultural Meteorology
Agric. Sys.	Agricultural Systems
Agric. Water Manage.	Agricultural Water Management
Agron. Abstr.	Agronomy Abstracts
Agron. J.	Agronomy Journal
Am. Biol. Teacher	American Biology Teacher
ASA	American Society of Agronomy
ASAE	American Society of Agricultural Engineers
ASCE	American Society of Civil Engineers
Ann. Arid Zone	Annals of Arid Zone
Ann. Bot.	Annals of Botany
Ann. Rev. Plant Physiol.	Annual Review of Plant Physiology
Arch. Meteorol. Geophys. Biokl.	Archiv fur Meteorologie, Geophysik und Bioklimatologie
Aust. J. Agric. Res.	Australian Journal of Agricultural Research
Aust. J. Plant Physiol.	Australian Journal of Plant Physiology
Aust. J. Stat.	Australian Journal of Statistics
Aust. Meteorol. Mag.	Australian Meteorological Magazine
*****	Biometrics
Bull. Amer. Meteor. Soc.	Bulletin of the American Meteorological Society
Calif. Agric.	California Agriculture
Can. J. Soil Sci.	Canadian Journal of Soil Science
CIAT	Centro Internacional de Agricultura Tropical (International Center for Tropical Agriculture)
*****	Climatic change
CAGM	Commission for Agricultural Meteorology
CSIRO	Commonwealth Scientific and Industrial Research Organization, Australia
CSSA	Crop Science Society of America
Crop Soils	Crops and Soils
*****	Ecology
Environ. Entomol.	Environmental Entomology
*****	Euphytica
Exp. Agric.	Experimental Agriculture
Field Crops Abstr.	Field Crops Abstracts
Field Crops Res.	Field Crops Research
FAO	Food and Agriculture Organization of the United Nations
FAO Irrig. Drain. Pap.	Food and Agriculture Organization of the United Nations Irrigation and Drainage Paper
FAO Plant Prod. Prot. Pap.	Food and Agriculture Organization of

	the United Nations Plant Production and Protection Paper
Fd. Pckr. *****	Food Packer Geography
Geogr. Rev.	Geographical Review
HortSci.	HortScience
ICID	International Commission on Irrigation and Drainage
ICRISAT	International Crops Research Institute for the Semi-Arid Tropics
Int. J. Biometeorol.	International Journal of Biometeorology
IRRI	International Rice Research Institute
Iowa State College J. Sci.	Iowa State College Journal of Science
Iowa State J. Res.	Iowa State Journal of Research
Irrig. Sci.	Irrigation Science
Israel J. Agric. Res.	Israel Journal of Agricultural Research, The
J. Agric. Econ.	Journal of Agricultural Economics
J. Agric. Res.	Journal of Agricultural Research
J. Amer. Soc. Hort. Sci.	Journal of the American Society of Horticultural Science
J. Appl. Meteorol.	Journal of Applied Meteorology
J. Aust. Inst. Agric. Sci.	Journal of the Australian Institute of Agricultural Science
J. Climatol.	Journal of Climatology
J. Climate Appl. Meteorol.	Journal of Climate and Applied Meteorology
J. Ecol.	Journal of Ecology
J. Geophys. Res.	Journal of Geophysical Research
J. Hort. Sci.	Journal of Horticultural Science
J. Hydrol.	Journal of Hydrology
J. Irrig. Drain. Div. ASCE	Journal of the Irrigation and Drainage Division of the American Society of Civil Engineers
J. Irrig. Drain. Eng. ASCE	Journal of Irrigation and Drainage Engineers of the American Society of Civil Engineers
J. Soil Water Conserv.	Journal of Soil and Water Conservation
J. Tenn. Acad. Sci.	Journal of the Tennessee Academy of Science
J. Trop. Geogr. *****	Journal of Tropical Geography Meteorology
Met. Monogr.	Meteorological Monographs
Monthly Weather Rev. *****	Monthly Weather Review
*****	National Academy of Sciences
Neth. J. Agric. Sci.	Nature
	Netherlands Journal of Agricultural Science, The
NOAA	National Oceanic and Atmospheric Administration
Phys. Geog.	Physical Geography
Physiol. Res.	Physiology Research



Physiol. Rev.  
Plant Physiol.  
Proc. Amer. Soc. Hort. Sci.  
  
Proc. Fla. State Hort. Soc.  
  
Proc. R. Meteorol. Soc.  
  
\*\*\*\*\*  
Prof. Geogr.  
\*\*\*\*\*  
Quart. J. Royal Meteorol. Soc.  
  
\*\*\*\*\*  
Soil Sci.  
Soil Sci. Soc. Am. Proc.  
  
Sov. Meteorol. Hydrol.  
Trans. ASAE  
  
UNESCO  
  
USDA  
Water Resour. Bull.  
Water Resour. Res.  
\*\*\*\*\*  
\*\*\*\*\*  
Weekly Weather Crop Bull.  
WMO  
WMO Bulletin

Physiology Review  
Plant Physiology  
Proceedings of the American Society of  
Horticultural Science  
Proceedings of the Florida State  
Horticultural Society  
Proceedings of the Royal Meteorological  
Society, London  
Publications in Climatology  
The Professional Geographer  
Publications in Climatology  
Quarterly Journal of the Royal  
Meteorological Society  
Science  
Soil Science  
Soil Science Society of America  
Proceedings  
Soviet Meteorology and Hydrology  
Transactions of the American Society of  
Agricultural Engineers  
United Nations Educational, Scientific,  
and Cultural Organization  
United States Department of Agriculture  
Water Resources Bulletin  
Water Resources Research  
Weather  
Weatherwise  
Weekly Weather and Crop Bulletin  
World Meteorological Organization  
World Meteorological Organization  
Bulletin

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APPENDIX A:

KEYWORDS USED IN COMPUTER SEARCHES  
OF PROFESSIONAL FILE/LOTUS 123

## KEYWORDS USED IN COMPUTER SEARCHES

agroclimatic analysis  
agroclimatic classification  
agroecology  
agrotechnology  
alfalfa  
animals  
barley  
beans  
cattle  
chilling  
climate  
climate analysis  
climate forecast  
climatic change  
climatic classification  
cotton  
cowpea  
crop adaptation  
crop development  
crop growth  
crop models  
crop physiology  
crop response  
crop yield  
cropping systems  
dendroclimatology  
disease  
drought  
drought resistance  
dryland agriculture  
environment  
evapotranspiration  
farming systems research  
fertilization  
field crops  
floral development  
flowering  
forest  
frost  
fruits  
general agroclimatology  
general climatology  
germination  
global production  
grain development  
growing degree days  
growing season  
hay  
heat resistance  
heat stress  
history  
humidity  
insects  
instrumentation  
irrigation  
leaf area index  
light  
lysimeters  
maize  
maturity  
microclimate  
millet  
Nebraska  
pasture  
peanuts  
phenology  
photoperiod  
photosynthesis  
photothermal units  
planting date  
planting density  
potato  
rainfall  
rainfall analysis  
rice  
seedlings  
semi-arid regions  
shade tolerance  
soil  
soil moisture  
soil temperature  
solar radiation  
solar-thermal units  
sorghum  
soybeans  
statistics  
sunflower  
temperature  
temperature analysis  
Tennessee  
tillers  
tobacco  
transpiration  
tropics  
vegetables  
waterlogging  
water stress  
water stress index  
water use  
weather

weather information  
wheat  
wind  
yield components