

Elsevier Biobase

FILE DESCRIPTION

Elsevier BIOBASE is a bibliographic current awareness database providing comprehensive coverage of the entire spectrum of biological research worldwide.

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SUBJECT COVERAGE

Elsevier BIOBASE covers the spectrum of biological information:

- Applied Microbiology & Biotechnology
- Cancer Research
- Cell and Developmental Biology
- Clinical Chemistry
- Ecological & Environmental Sciences
- Endocrinology & Metabolism
- Genetics & Molecular Biology
- Immunology & Infectious Diseases
- Neuroscience
- Plant Science
- Protein Biochemistry
- Toxicology

TIPS

USE FILE 71

to find information on biological topics from more than 2,000 international sources.

USE /DE

to search for a subject:

SELECT SEED GERMINATION/DE

USE THE CABS CLASSIFICATION

to search broad subject categories. Type HELP CODES 71 to see a complete list:

S SC=92.7.1.1

USE RANK

to see what other terms could be used as descriptors:

SELECT PINUS(W)NIGRA/DE
RANK DE

DIALOG FILE DATA

Inclusive Dates: 1994 to present

Update Frequency: Weekly

File Size: 4.1 million records as of December 2008

CONTACT

Elsevier Biobase is provided by Elsevier. Questions concerning file content should be directed to:

Elsevier B.V.

P.O. Box 211

Amsterdam, 1000 AE

The Netherlands

Phone: +31-20-485-3507

Fax: +31-20-485-3432

E-Mail: ebd-marketing@elsevier.com

SAMPLE RECORD

DIALOG(R)File 71: Elsevier BIOBASE 1997/OCT
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AZ=,AA= 00700032 97208730
/TI Effects of high temperatures and ash on seed germination of two iberian pines (*Pinus nigra* ssp *salzmannii*, *P sylvestris* var *iberica*) Escudero A.; Barrero S.; Pita J.M.
AU=
CS= ADDRESS: A. Escudero, Dpto Biologia Vegetal, EUIT Agricola, Universidad
CN= Politecnica de Madrid, 28040 Madrid, Spain
SO=,DT=,JN=,PY=,CP= Journal: Annales des Sciences Forestieres ,54/6 (553-562) ,1997, France
CD= CODEN: ANSFA
SN= ISSN: 0003-4312
DT= DOCUMENT TYPE: Article
LA=,SL= LANGUAGES: English SUMMARY LANGUAGES: English; French
 NO. OF REFERENCES: 51

/AB The effect of high temperatures and ash on seed germination of two Iberian pines (*Pinus nigra* ssp *salzmannii* and *P sylvestris* var *iberica*) has been studied. These two pines are widely distributed in the oromediterranean and supramediterranean bioclimatological belts of the eastern half of the Iberian Peninsula. Our results are clearly very similar for both pines. Seed cover protects embryos up to 70 degreeC (germination percentage above 90%), which is a very low temperature for a wildfire, catastrophically failing when this temperature is surpassed. Addition of ash solutions did not modify this trend. As has been previously reported, both pines have photophilous seeds, which indicates that they can regenerate rapidly after disturbance, except wildfires, as our results illustrate. These results confirm the field observations after very large fires in extensive and homogeneous pine forests (> 10 000 Ha), in the sense that recruitments of both pines are extremely rare after disturbance. At a community level, our results seem to indicate that pine formations must be naturally confined to the oromediterranean belt or at permanent stands in spurs, crests or steep rocky slopes where density is very low and wildfires do not become catastrophic. The existence of formations in the supramediterranean belt must be man-induced (landscape changes) and driven, not necessarily planted, and can be rapidly substituted by oak formations after intense wildfires.

/DE DESCRIPTORS:
 Ash; Heat treatment; *Pinus nigra*; *Pinus sylvestris*; Seed germination; Wildfires

/DE SPECIES DESCRIPTORS:
Pinus nigra; *Pinus sylvestris*

SH=,SH CLASSIFICATION DESCRIPTORS:
 92.7.1.1-PLANT SCIENCE / DEVELOPMENT / Vegetative Development / Germination and dormancy
 92.13.1.6-PLANT SCIENCE / ENVIRONMENTAL BIOLOGY / Ecology / Interactions with environment
 91.2.3.1-ECOLOGICAL AND ENVIRONMENTAL SCIENCES / ABIOTIC ENVIRONMENT / Interactions with the Abiotic Environment / Climate
 91.5.5.3-ECOLOGICAL AND ENVIRONMENTAL SCIENCES / ECOLOGY OF INDIVIDUALS / Growth and Size / Plant

SEARCH OPTIONS

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S HIGH(W)TEMPERATURE?
/AB	AB	Abstract	Word	S SEED(W)COVER?/AB
/DE	DE	Descriptor ^{1,2}	Word & Phrase	S HEAT(W)TREATMENT/DE
/SH	SH	Classification Description ³	Word & Phrase	S SEED GERMINATION/DE S ENVIRONMENTAL(W)BIOLOGY/SH
/TI	TI	Title	Word	S PLANT SCIENCE/SH S IBERIAN(W)PINE?/TI

¹ Also /DF.³ Use HELP CODES 71 for the list of Classification codes and description² Not present in all records.

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	IP Accession Number	Phrase	S AA=97208730
AU=	AU	Author or Editor	Phrase	S AU=PITA J.M.
—	AZ	DIALOG Accession Number		
BN=	BN	ISBN Number	Phrase	S BN=0123737969
CD=	CD	CODEN	Phrase	S CD=ANSFA
CN=	CN	Author's Country ⁴	Phrase	S CN=SPAIN
CP=	CP	Country of Publication	Phrase	S CP=FRANCE
CS=	CS	Corporate Source	Word	S CS=(UNIVERSIDAD(W)POLITECNICA)
DT=	DT	Document Type	Phrase	S DT=ARTICLE
—	EL	Email Address		
—	HD	History Date ⁶		
—	II	Publisher Item Identifier (PII) ⁵		
JN=	JN	Journal Name	Phrase	S JN=ANNALES DES SCIENCES FORESTIERS
LA=	LA	Language	Phrase	S LA=ENGLISH
NO=	NO	Article Number	Phrase	S NO=DZ5100
—	NR	Number of Reference		
PD=	PD	Publication Date ⁶	Phrase	S PD=19970000
PU=	PU	Publisher	Word	S PU=SPRINGER VERLAG
PY=	PY	Publication Year	Phrase	S PY=1997
RT=	RT	Record Type	Phrase	S RT=ABSTRACT
SC=	SC	Classification Code and Description ³	Phrase	S SC=92.7.1.1
SH=	SH	Classification Description ³	Phrase	S SH=ANTIGEN RECOGNITION
SL=	SL	Summary Language	Phrase	S SL=FRENCH
SN=	SN	International Standard Serial Number (ISSN)	Phrase	S SN=0003-4312
SO=	SO	Source Information	Word	S SO=(ANNALES AND FORESTIERES)
SQ=	SQ	Molecular Sequence Database/Number ⁶	Word	S SQ=(GENBANK(W)M89923)
UD=	—	Update	Phrase	S UD=9999
—	UR	URL		

⁴ Author's country also searchable as CS=⁶ Available from January 1998 forward.⁵ Beginning in 1997.

SPECIAL FEATURES

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP DUP, HELP CURRENT online.

LIMIT	/ABS -- Abstract Present /ENG -- English-Language Records /NOABS -- No Abstract Present /NONENG -- Non-English Language Records /YYYY -- Publication Year	S S1/ABS S S3/ENG S S5/NOABS S S2/NONENG S S4/1999:2002
SORT	AU, JN, PD, PY, TI	SORT S2/ALL/TI SORT S1/ALL/PY/D
RANK	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: DE	RANK DE RANK SH S1
RD, ID	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
CURRENT	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 71 CURRENT2

PREDEFINED FORMAT OPTIONS

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	Medium	Full Record except Abstract
3	Short	Bibliographic Citation
4	--	Full Record Tagged
5	--	Full Record
6	Free	Title
7	Long	Abstract and Bibliographic Citation
8	--	Title and Descriptors
9	Full	Full Record
K	--	KWIC (Key Word In Context) displays a window of text; may be used alone or with other formats

OTHER OUTPUT OPTIONS

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

USER DEFINED FORMATS	Output may be specified using the display codes indicated in Search Options tables.	TYPE S2/AU,TI,SO/1-5 PRINT S1/TI,PY/ALL
TAG	Output can be displayed with tags identifying each display field	TYPE S4/9/ALL TAG PRINT S2/5/1-10 TAG DISPLAY S1/7/ALL TAG
DIRECT RECORD ACCESS	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 00085603/9 PRINT 00095905/5 DISPLAY 2097017/4

FOR ONLINE HELP:

See HELP FIELDS 71 for searchable fields; HELP FORMAT 71 for output formats; HELP LIMIT 71 for limits; HELP RATES 71 for cost information; HELP SORT 71 for sorts.