Thank you for inviting me!

~~ Share information resources on fire & invasive plants

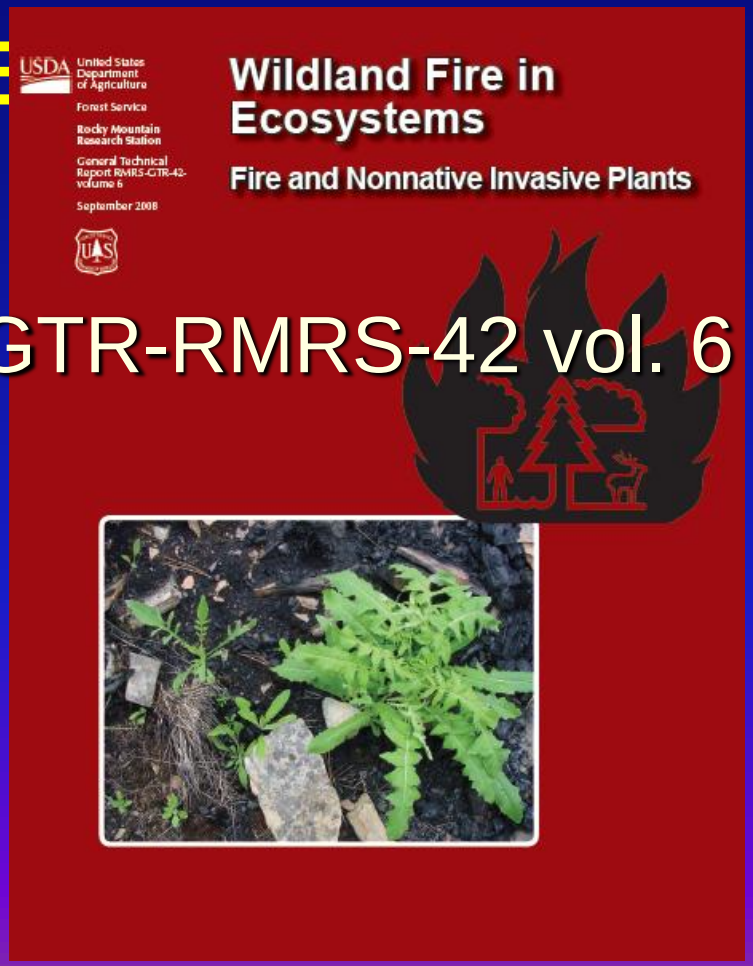
What is missing for Caribbean FILN?

~~ Develop project for sharing professional knowledge

~~ Share information resources on fire & invasive plants (1)

Wildland Fire in E
Fire and Nonnative

General Technical Report GTR-RMRS-42 vol. 6



~~ Share information resources on fire & invasive plants (1)

Wildland Fire in Ecosystems:
Fire and Nonnative Invasive Plants

General Technical Report GTR-RMRS-42 vol. 6

- Concepts: fire effects & management issues
- Chapter 6: Southeastern US

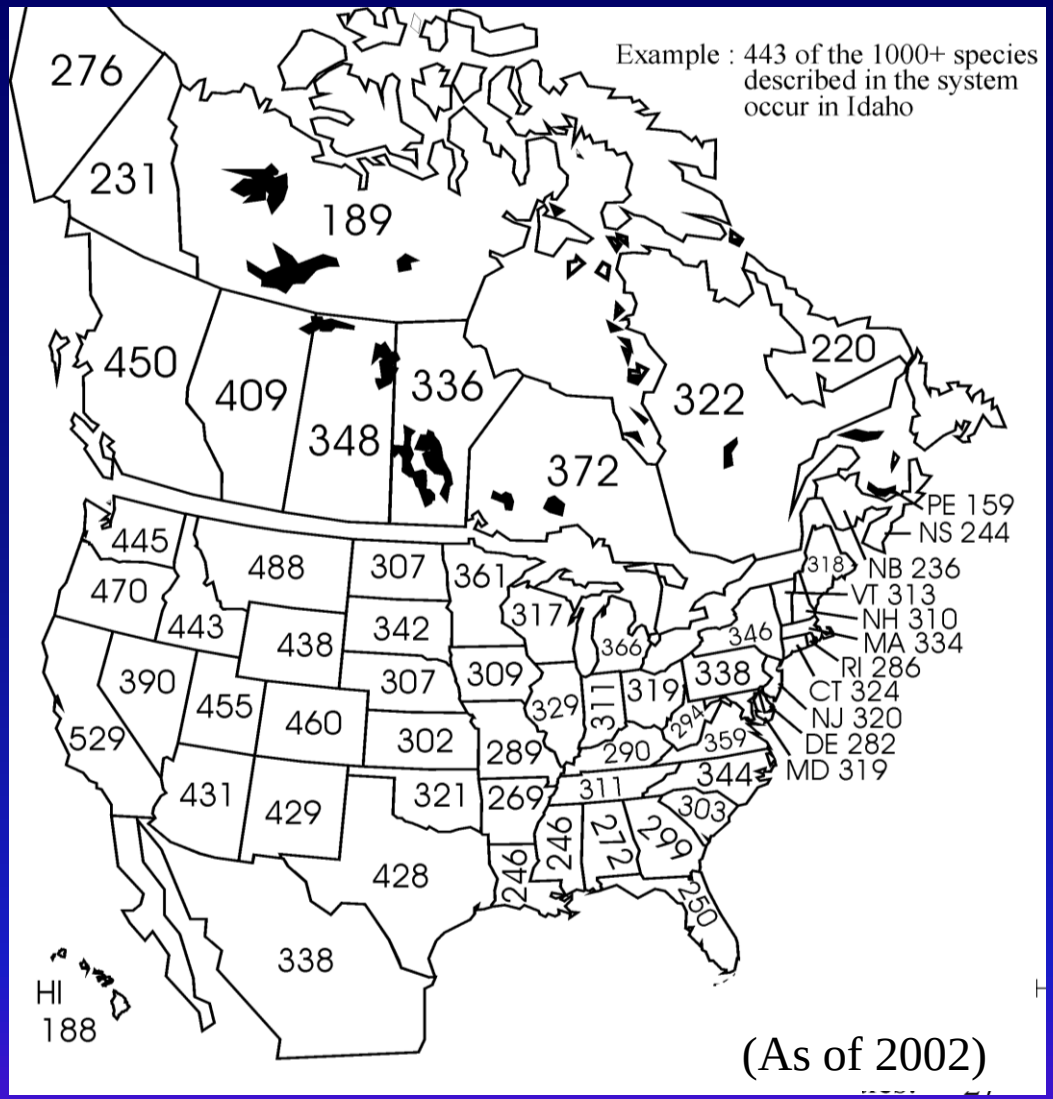
http://www.fs.fed.us/rm/pubs/rmrs_gtr042_6.html

~~ Share information resources on fire & invasive plants (2)

Fire Effects Information System (FEIS)

- Reviews of biology, ecology, fire effects
- >1,100 species (plants & animals)
- ~120 invasive plants

www.fs.fed.us/database/feis


Example : 443 of the 1000+ species described in the system occur in Idaho
276
231
189
450
409
348
336
372
322
220
PE 159
NS 244
NB 236
VT 313
NH 310
MA 334
RI 286
CT 324
NJ 320
DE 282
MD 319
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246
272
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HI
188
(As of 2002)

Fire Effects Information System

(enter query)
Search

- Home

FEIS Reviews:

- Animal species
- Lichen species
- Plant species
  - Invasive plants
- Fire Studies
- Kuchler types

Fire Citation Database

- Citation Retrieval System

System Information:

- About FEIS
- Format of FEIS reviews
- Fire regimes of the US
- Glossary
- Pesticide precautionary

FEIS Home Page

Search FEIS:

Search

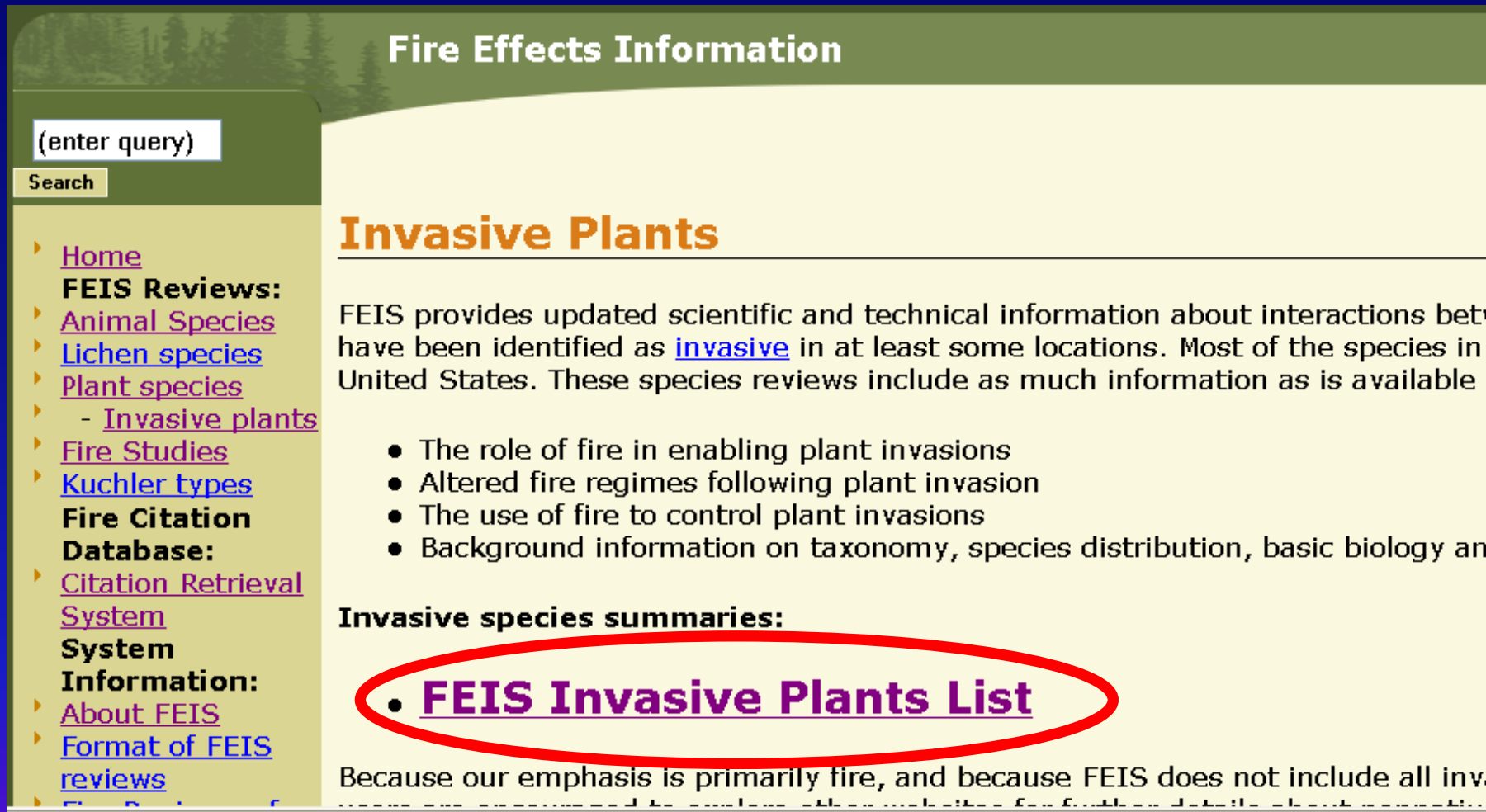
Options Help

FEIS summarizes and synthesizes research about living organisms in the United States—their biology, ecology, and relationship to fire.

To cite information from a FEIS review, copy and paste the Authorship and Citation section from the INTRODUCTORY page.

Example:

> **Gucker, Corey. 2009. Berberis vulgaris. In: Fire Effects Information System, [Online]. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). Available: http://www.fs.fed.us/database/feis [].**


Fire Effects Information
(enter query)
Search
Home
FEIS Reviews:
Animal Species
Lichen species
Plant species
- Invasive plants
Fire Studies
Kuchler types
Fire Citation Database:
Citation Retrieval System
System Information:
About FEIS
Format of FEIS reviews
Invasive Plants
FEIS provides updated scientific and technical information about interactions bet
have been identified as invasive in at least some locations. Most of the species in
United States. These species reviews include as much information as is available
The role of fire in enabling plant invasions
Altered fire regimes following plant invasion
The use of fire to control plant invasions
Background information on taxonomy, species distribution, basic biology an
Invasive species summaries:
FEIS Invasive Plants List
Because our emphasis is primarily fire, and because FEIS does not include all inv

Invasive Plants List

Abbreviation	Species	Common Name
ACEPLA	Acer platanoides	Norway maple
ACRREP	Acroptilon repens	Russian knapweed
AGRCRI	Agropyron cristatum	crested wheatgrass
LONJAP	Lonicera japonica	Japanese honeysuckle
LONMAA	Lonicera maackii	Amur honeysuckle
LONMOR	Lonicera morrowii	Morrow's honeysuckle
LONTAT	Lonicera tatarica	Tatarian honeysuckle
LONXYL	Lonicera xylosteum	European fly honeysuckle
LYGJAP	Lygodium japonicum	Japanese climbing fern
LYGMIC	Lygodium microphyllum	Old World climbing fern
LYTSAL	Lythrum salicaria	purple loosestrife
MEDSAT	Medicago sativa	alfalfa
MELQUI	Melaleuca quinquenervia	melaleuca
MELALB	Melilotus alba	white sweetclover
MELOFF	Melilotus officinalis	yellow sweetclover
MELMIN	Melinis minutiflora	molasses grass
MICVIM	Microstegium vimineum	Japanese siltgrass

Table of Contents

GENERAL BOTANICAL CHARACTERISTICS:
This description provides characteristics that may be relevant to fire ecology, and is not meant for identification. Keys for identification are available (e.g. [28,44,45]).

Japanese climbing fern fronds are from 3.3 to 100 feet (1-30.5 m) in length [1,3,28], and Old World climbing fern fronds grow to 90 feet (27 m) long [16]. In Japanese climbing ferns, pinnae (groups of leaflets) are up to 12 inches (30 cm) wide, and are subdivided into 2 or 3 pinnules (leaflets) up to 3 inches (8 cm) long and 6 inches (15 cm) wide [28,29]. Old World climbing fern pinnae are 2 to 5 inches (5-13 cm) long with several pairs of pinnules
ith tiny lobes of enrolled leaf tissue along the
imbing fern sporangia are borne on narrow,

IMMEDIATE FIRE EFFECT ON PLANT:
As of this writing (2005) there are no published studies documenting the effects of fire on climbing ferns. Anecdotal accounts suggest that climbing fern fronds will burn (see Fire Management Considerations below), and to the extent that plant tissues are consumed or damaged, may be top-killed. Studies are needed that document and assess the effects of fire on climbing ferns.

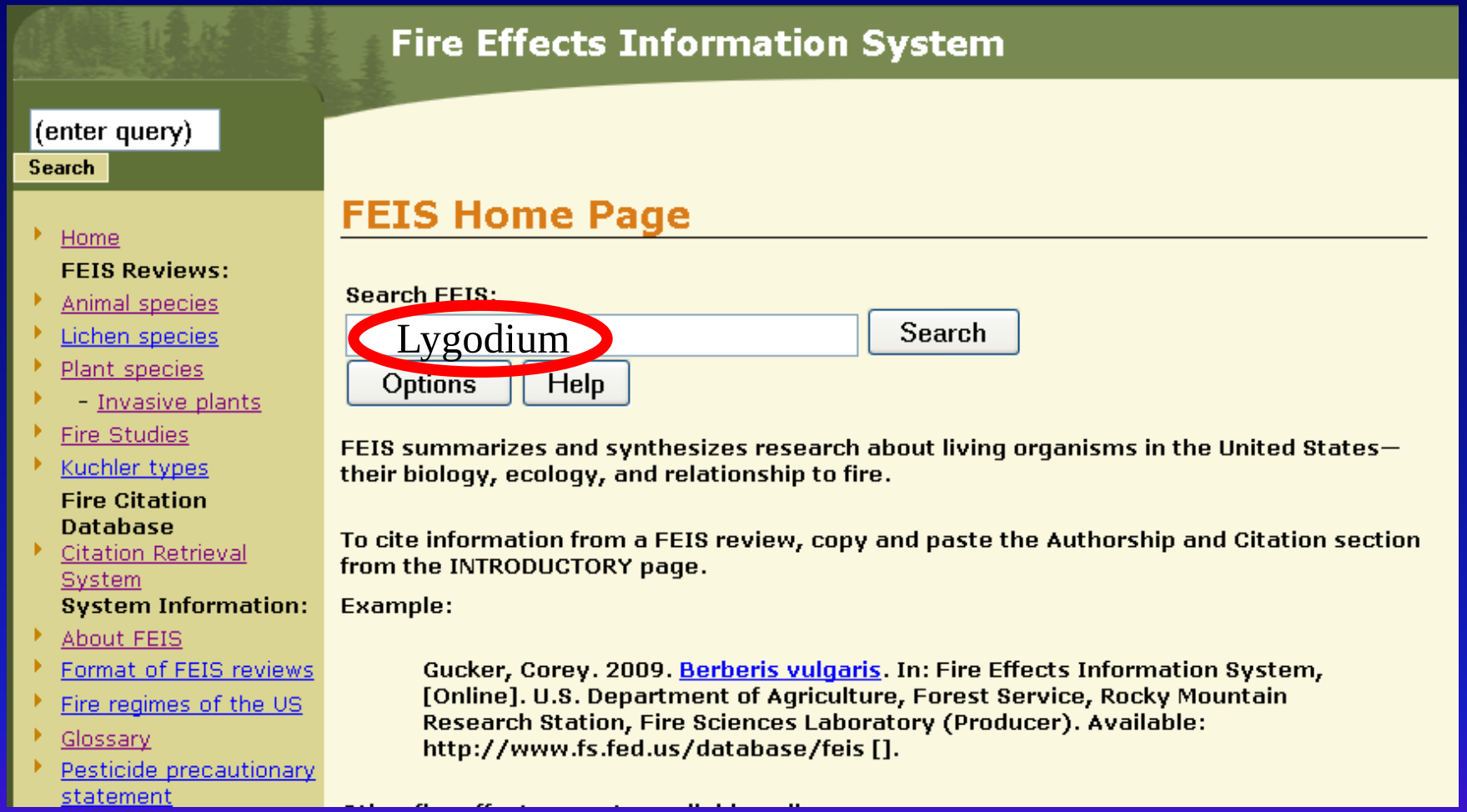
DISCUSSION AND QUALIFICATION OF FIRE EFFECT:
No additional information is available on this topic.

PLANT RESPONSE TO FIRE:
As of this writing (2005) published studies de
others [37] noted that Old World climbing fern
some indication that Old World climbing fern
tissue damaged by frost, herbicide, or mechani
documented, it is likely that climbing ferns may

Old World climbing fern

©Mandy Tu/The Nature Conservancy

37. Stocker, Randall K.; Ferriter, Amy; Thayer, Dan; Rock, Michael; Smith, Steve. 1997. Old World climbing fern hitting South Florida below the belt. Wildland Weeds. (Winter): 6-10. [55556]


Fire Effects Information System
(enter query)
Search
Home
FEIS Reviews:
Animal species
Lichen species
Plant species
- Invasive plants
Fire Studies
Kuchler types
Fire Citation Database
Citation Retrieval System
System Information:
About FEIS
Format of FEIS reviews
Fire regimes of the US
Glossary
Pesticide precautionary statement
FEIS Home Page
Search FEIS:
Lygodium
Search
Options
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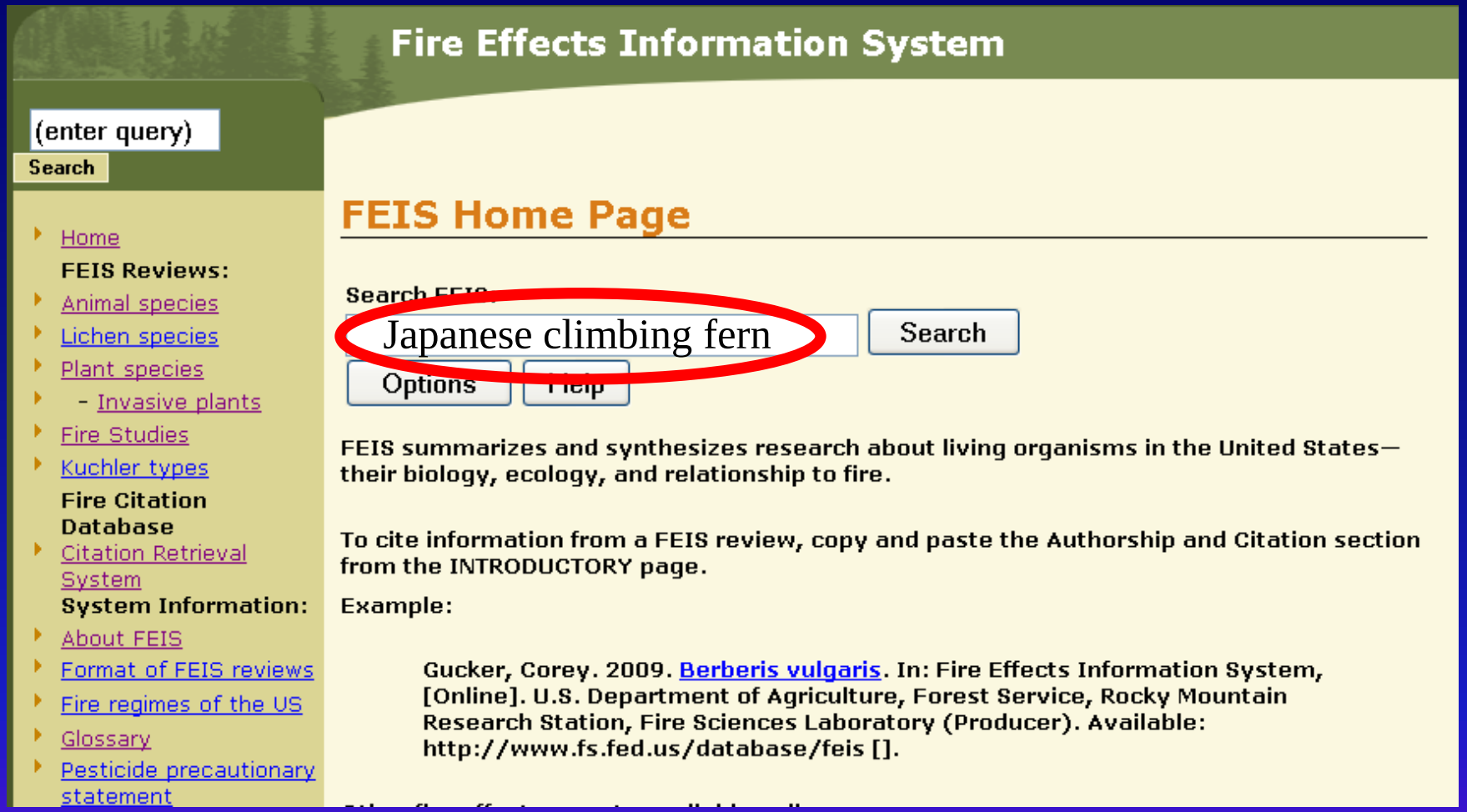
Gucker, Corey. 2009. Berberis vulgaris. In: Fire Effects Information System, [Online]. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). Available: http://www.fs.fed.us/database/feis [].

sci	com	FEIS yr
Albizia lebbeck	woman's tongue	A. julibrissin, 2009
Casuarina equisetifolia	sheoak	1992
Cupressus arizonica	Arizona cypress	1993
Cytisus scoparius	Scotch broom	2006
Echinochloa crus-galli	barnyard grass	1994
Eleaegnus umbellata	autumn-olive	2003
Fragaria vesca	wild strawberry	2007
Holcus lanatus	common velvetgrass	2009
Imperata cylindrica	cogon grass	2005
Lonicera japonica	Japanese honesuckle	2002
Lygodium microphyllum	Old World climbing fern	2005
Melaleuca quinquenervia	melaleuca	2005
Melinis minutiflora	molasses grass	2008
Melinis repens	Natal grass	soon
Paulownia tomentosa	princesstree	2009
Pennisetum ciliare	buffelgrass	2008
Pteridium aquilinum?	bracken fern	1990
Pueraria montana var. lobata	kudzu	2002
Rumex acetosella	sheep sorrel	1995
Schinus terebinthifolius	Brazilian pepper	2006
Sorghum halapense	Johnson grass	2004
Spartium junceum	Spanish broom	2006
Trifolium repens	white clover	1993 & soon
Verbascum thapsus	mullein	2008


Fire Effects Information System
(enter query)
Search
Home
FEIS Reviews:
Animal species
Lichen species
Plant species
- Invasive plants
Fire Studies
Kuchler types
Fire Citation Database
Citation Retrieval System
System Information:
About FEIS
Format of FEIS reviews
Fire regimes of the US
Glossary
Pesticide precautionary statement
FEIS Home Page
Search FEIS:
Japanese climbing fern
Search
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SPECIES: Lygodium japonicum, L. microphyllum

Table of Contents

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erns, pinnae (groups of leaflets) are up to 12 inches
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©Mandy Tu/The Nature Conservancy

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Fire Effects Information System

(enter query)
Search

- Home

FEIS Reviews:

- Animal species
- Lichen species
- Plant species
  - Invasive plants
- Fire Studies
- Kuchler types

Fire Citation Database

- Citation Retrieval System

System Information:

- About FEIS
- Format of FEIS reviews
- Fire regimes of the US
- Glossary
- Pesticide precautionary

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~~ Share information resources on fire & invasive plants (3)

Citation Retrieval System for FEIS

- Citations only (no downloadable documents
- 60,000+ references
- Detailed keywords

(Download pdf file with spp keywords)

feis-crs.org

~~ Share information resources on fire & invasive plants (4)

Tall Timbers Library

- Citations only (no downloadable documents??)
- ~20,000 references??
- May have more than CRS on Caribbean spp
- Detailed keywords
  (Use sp scientific name)

www.talltimbers.org/fedb-intro.html

~~ Share information resources on fire & invasive plants

What is missing for Caribbean FILN?

~~ Develop project for sharing professional knowledge

~~ Develop project for sharing professional knowledge

- How can we share information through FEIS?
- What information is most important?

Search FEIS for Schinus terebinthifolius

Or… Demonstration ("Dummy") file

Professional knowledge:

What do we know?

That is, what have we observed?

<u>"Dummy" topics:</u>

Distribution & Site Requirements

Impacts

Biology and Ecology

Fuel Properties

Responses to Fire

Control

Distribution and Site Requirements:
Where have you found this species?
Where does it have the greatest impacts?
What conditions favor its establishment, persistence, and spread?

Impacts:
How does the species affect the desired plant and animal community?

Biology and Ecology:
What do we know about …
- life form
- life history
- regeneration

Is it sensitive to environmental conditions?
- heat &cold, drought & flooding, salt, soil conditions, light & shade

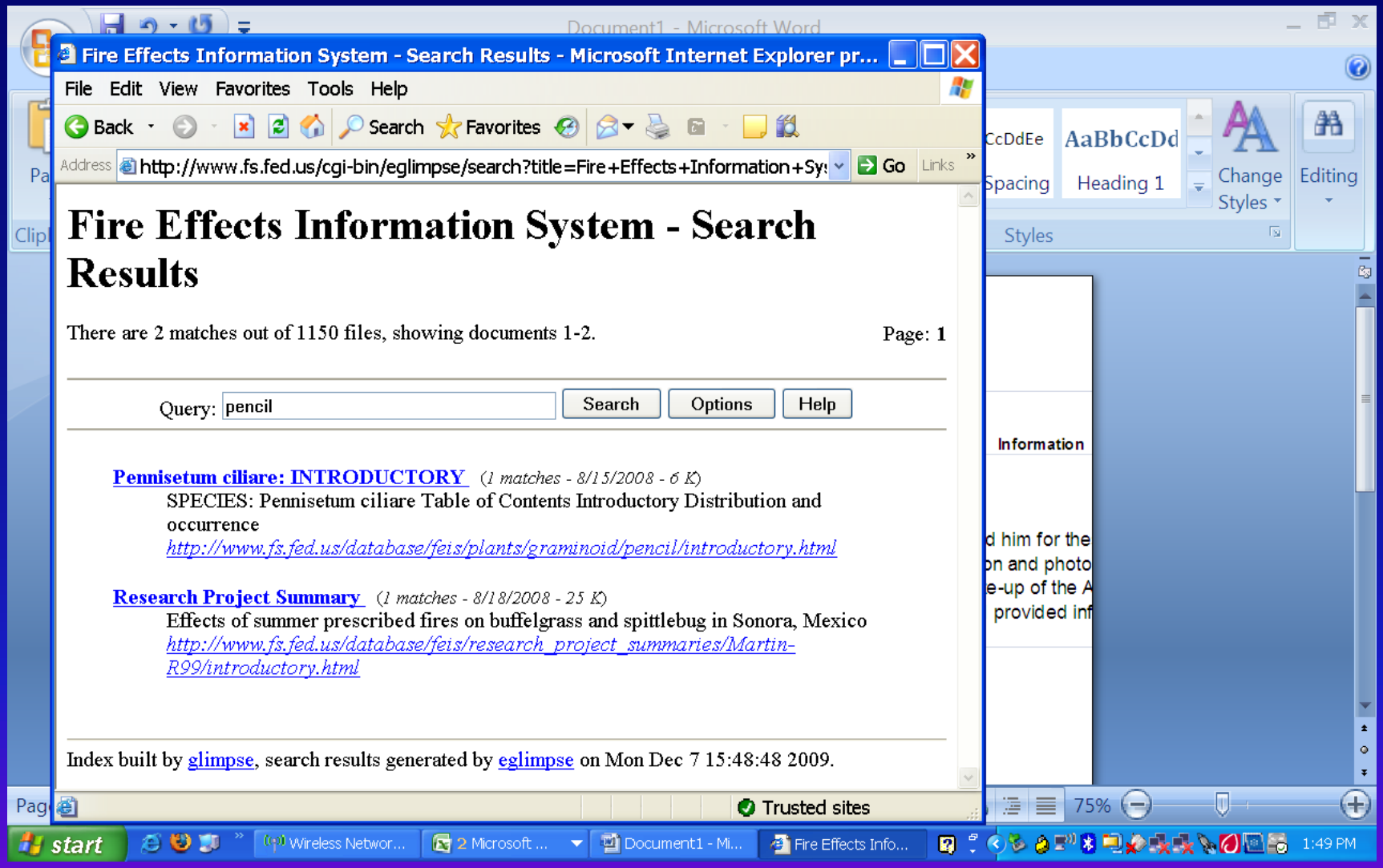
How does it respond to disturbances?

Fuel Properties:
Does it change fuels in invaded communities?
- amount, spatial arrangement, or seasonal abundance

Responses to fire:
How does it respond to fire
- at different severities, frequencies, or seasons?

Control:
What can we do to control this plant?
What have we tried that failed?

sci	com	Ba	CFl	DR	Ja	PR	SFl	StL	To	Total
Melaleuca quinquenervia	melaleuca	x		x			x	x		4
Bambusa vulgaris	common bamboo				x			x	x	3
Leucaena leucocephala	leadtree			x	no			x	x	3
Lygodium microphyllum	Old World climbing fern	x	x				x			3
Panicum maximum	guineagrass				x	x			x	3
Albizia lebbeck	woman's tongue			x	x					2
Casuarina equisetifolia	sheoak	x		x						2
Imperata cylindrica	cogon grass		x				x			2
Jatropha curcas	Barbados nut		x				x			2
Melinis repens	Natal grass		x				x			2
Pinus caribaea	Caribbean pine				x			x		2
Schinus terebinthifolius	Brazilian pepper	x			x					2


Document1 - Microsoft Word
Fire Effects Information System - Search Results - Microsoft Internet Explorer pr...
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Go Links
Fire Effects Information System - Search Results
There are 2 matches out of 1150 files, showing documents 1-2.
Page: 1
Query: pencil
Search Options Help
Pennisetum ciliare: INTRODUCTORY (1 matches - 8/15/2008 - 6 K)
SPECIES: Pennisetum ciliare Table of Contents Introductory Distribution and occurrence
http://www.fs.fed.us/database/feis/plants/graminoid/pencil/introductory.html
Research Project Summary (1 matches - 8/18/2008 - 25 K)
Effects of summer prescribed fires on buffelgrass and spittlebug in Sonora, Mexico
http://www.fs.fed.us/database/feis/research_project_summaries/Martin-R99/introductory.html
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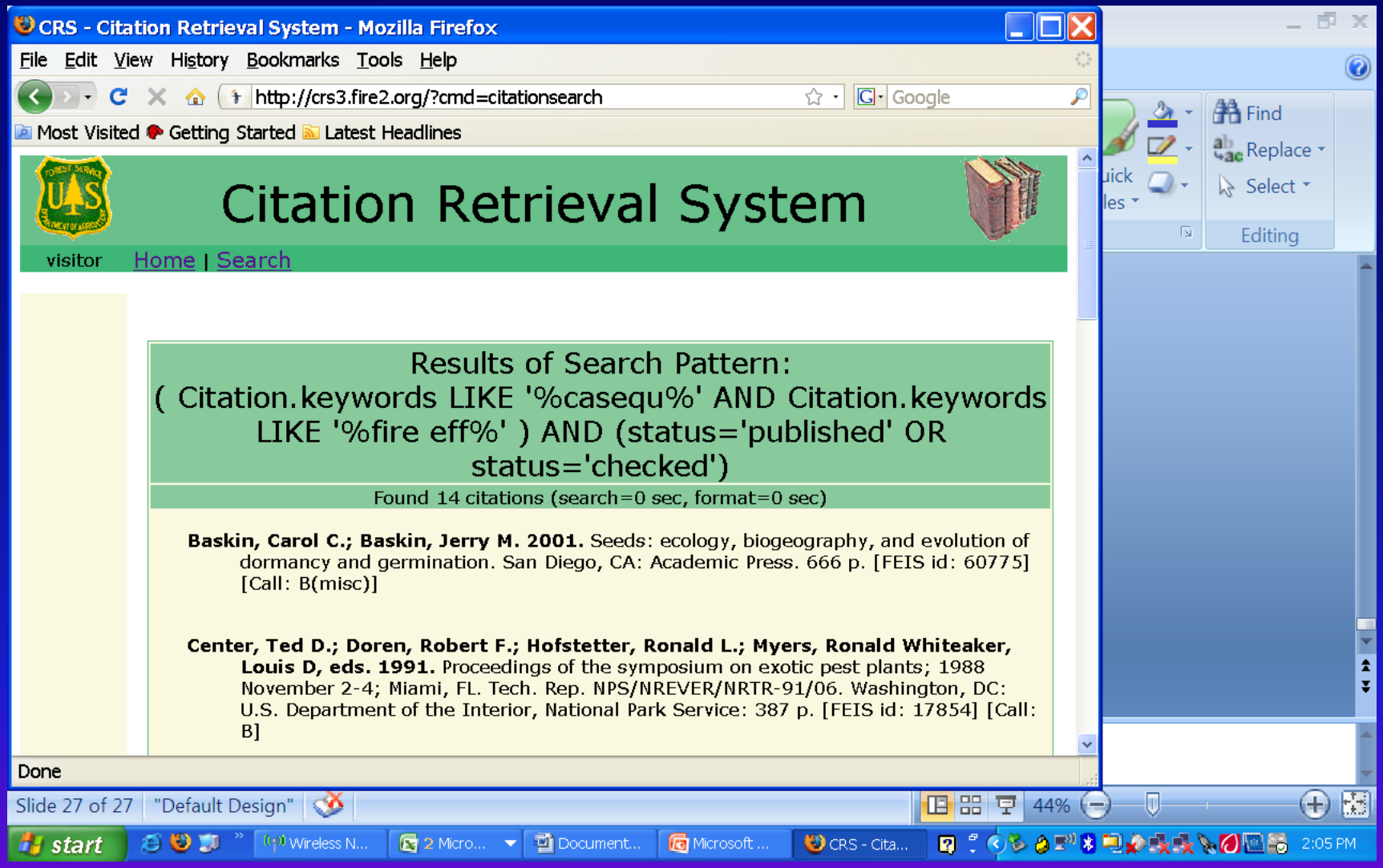
CRS - Citation Retrieval System - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://crs3.fire2.org/?cmd=citationsearch
Google
Most Visited Getting Started Latest Headlines
Citation Retrieval System
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Found 14 citations (search=0 sec, format=0 sec)
Baskin, Carol C.; Baskin, Jerry M. 2001. Seeds: ecology, biogeography, and evolution of dormancy and germination. San Diego, CA: Academic Press. 666 p. [FEIS id: 60775] [Call: B(misc)]
Center, Ted D.; Doren, Robert F.; Hofstetter, Ronald L.; Myers, Ronald Whiteaker, Louis D, eds. 1991. Proceedings of the symposium on exotic pest plants; 1988 November 2-4; Miami, FL. Tech. Rep. NPS/NREVER/NRTR-91/06. Washington, DC: U.S. Department of the Interior, National Park Service: 387 p. [FEIS id: 17854] [Call: B]
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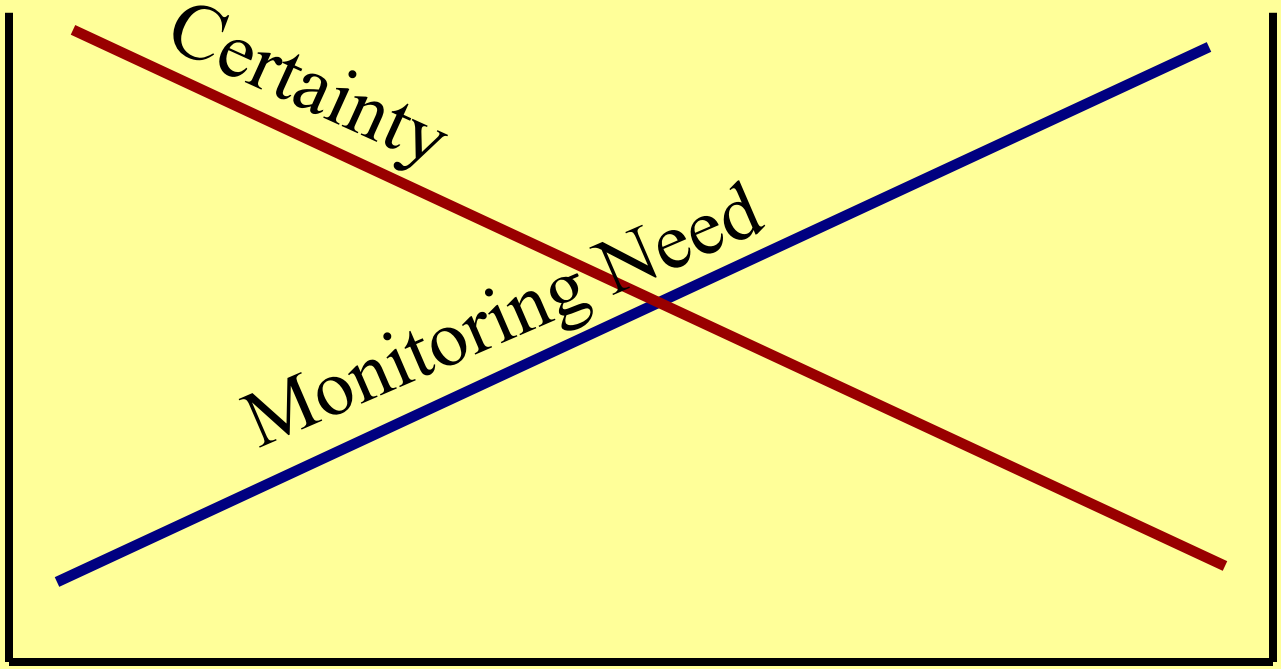
Need for monitoring and adjusting is great where certainty is low.



Pay attention!