



Invasive Species Information Node:
*Early Detection, Rapid Assessment and
Response Information System*



Invasive Species Information Node

<http://invasivespecies.nbio.gov>

NBII Home

ISIN Home	Current Projects	Species Info	Data & Maps	Identify & Report	Control & Restore	Learn More	invasive species.gov
About ISIN							

Welcome to the Invasive Species Information Node!



About NBII

Current Biological Issues

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Natural ecosystems are under siege by many harmful species of plants, animals and diseases. The current environmental, economic, and health costs of invasive species could exceed \$138 billion per year, more than all other natural disasters combined. Notorious examples include:



- [West Nile virus](#) and [Purple loosestrife](#) (northeast)
- [Kudzu](#), [water hyacinth](#), [nutria](#), and [fire ants](#) (southeast)
- [Zebra mussels](#) and [leafy spurge](#), (Midwest)
- [Salt cedar](#), [Russian olive](#), and [Africanized bees](#) (southwest)
- [Yellow star thistle](#) and [Asian clams](#) (California)
- [Cheatgrass](#), [knapweeds](#) and [thistles](#) (Great Basin)
- [Whirling disease](#) of salmonids (northwest)
- Hundreds of species ([microbes to mammals](#)) (Hawaii)
- The [brown tree snake](#) (Guam)

Hundreds of new species from other countries are introduced intentionally or accidentally into the U.S. each year. This threat intensifies the need for scientists, managers, and the many



Invasive Species Information Node

Online Invasive Species Early Detection & Rapid Response Information System Components

User ID & validation

Reporting

Expert Verification

Occurrence DBs

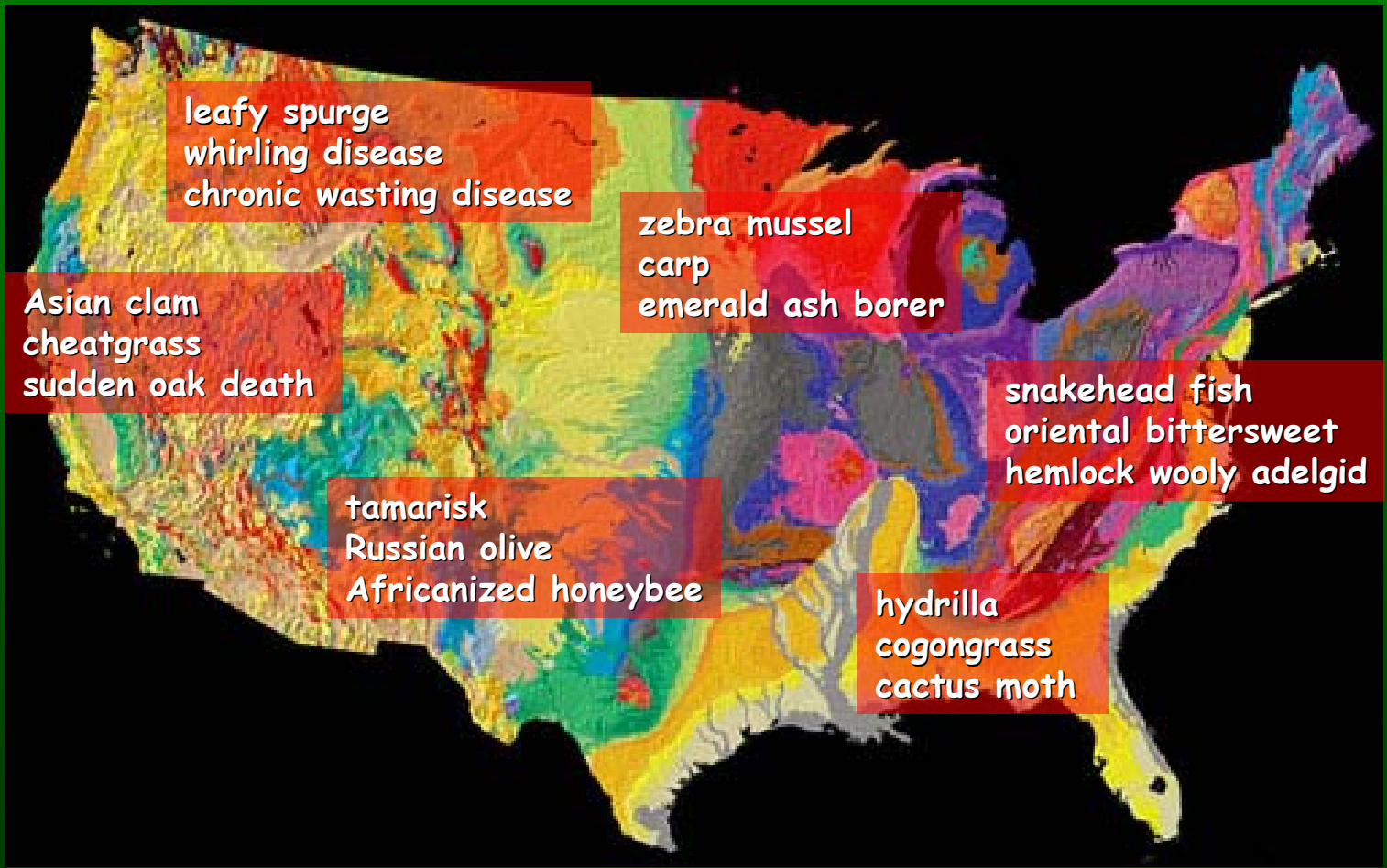
Rapid Assessment

Rapid Response





Some invasive "low-lights" from across the nation



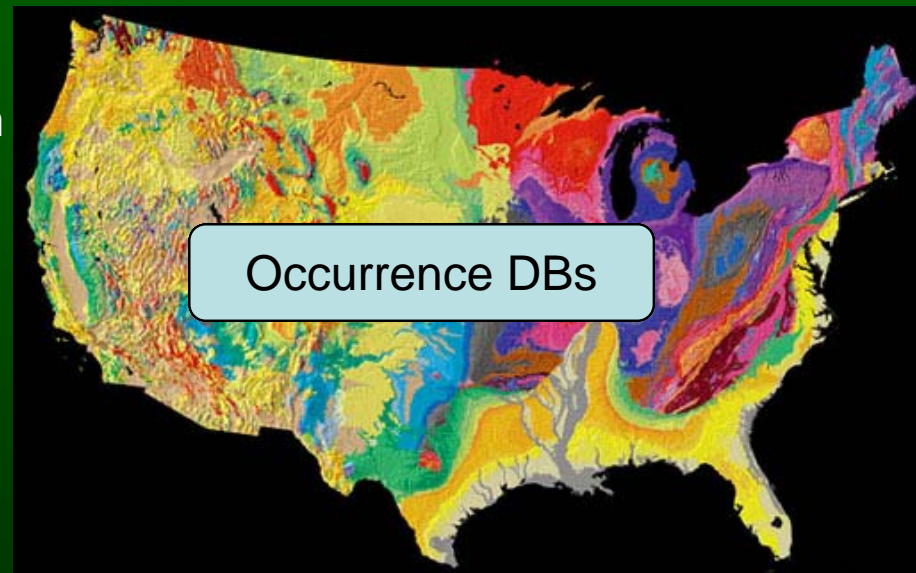


Key Partners:

1. USGS National Institute of Invasive Species Science
2. USGS Center for Aquatic Resource Studies
3. Integrated Taxonomic Information System
4. DiscoverLife & The Polistes Foundation
5. Invasive Species Specialist Group
6. Conservation Management Institute
7. Mississippi State University

Key Products:

1. Tamarisk mapping application
2. NISbase distributed invasive species database system
3. Taxonomic treatments and online ID tools for invasive species
4. Global Invasive Species Database and invasive species profiles
5. Regional early detection / rapid assessment and response projects

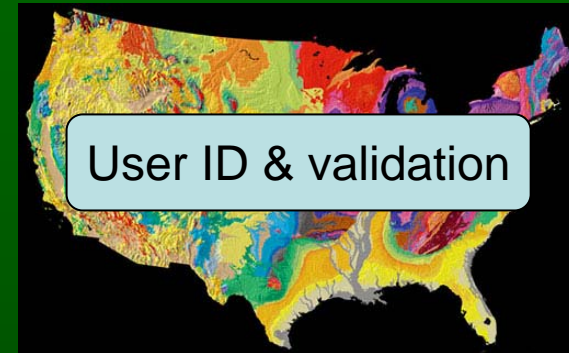




Invasive Species Information Node

Conservation Management Institute

1. Creation of invasive species profiles for the GISD



Principle Contact:
Lila Borge

Future Plans: assist in development of Web data entry tool;
create regional portal interface to GISD for the Mid-Atlantic Region (in cooperation with MAIN)

Related partnerships:

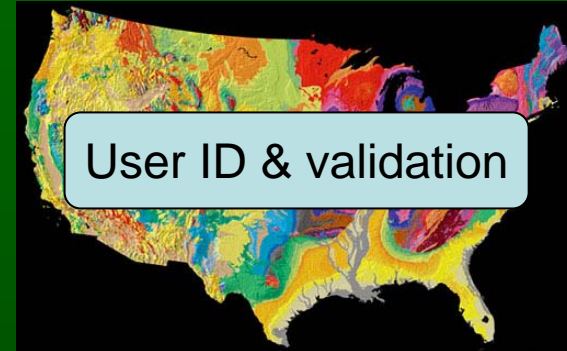
1. Invasive Species Specialist Group



Invasive Species Information Node

Invasive Species Specialist Group

1. Global Invasive Species Database collaboration (GISD)
2. Development of global species profile schema



Principle Contact:
Michael Browne

Future Plans: include mapping application in GISD; develop Web data entry tool; expand species profile partnerships; create printable summary pages

Related partnerships:

1. Conservation Management Institute
2. Global Invasive Species Information Network



Invasive Species Information Node

Global Invasive Species Database - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.invasivespecies.net/database/welcome/

Google Search

WebMail: INBOX: screen shots Global Invasive Species Database

GLOBAL INVASIVE SPECIES DATABASE 100 OF THE WORST HOME

Standard Search Taxonomic Site Index

Species name Country or location Habitat Organism type

all **GO**

WELCOME TO THE GLOBAL INVASIVE SPECIES DATABASE

LATEST ADDITIONS

Lutianus kasmira	Polysiphonia brodiaei	Tubastraea coccinea
Buqula neritina	Schizoporella errata	Alitta succinea
Chthamalus proteus	Tridentiger trigonocephalus	Acanthophora spicifera

The Global Invasive Species Database (GISD) aims to increase awareness about invasive alien species and to facilitate effective prevention and management activities. It is managed by the Invasive Species Specialist Group (ISSG) of the Species Survival Commission of the IUCN-World Conservation Union. The GISD was developed as part of the global initiative on invasive species led by the Global Invasive Species Programme (GISP) and is supported through partnerships with the National Biological Information Infrastructure, Manaaki Whenua-Landcare Research, the Critical Ecosystem Partnership Fund and the University of Auckland.

The Global Invasive Species Database focuses on invasive alien species that threaten native biodiversity and covers all taxonomic groups from micro-organisms to animals and plants in all ecosystems. Species information is either supplied by or reviewed by expert contributors from around the world. [Administrative login](#). As the database is continually being populated with species information, please check back on a regular basis for updates. See the site index for more information. If you have questions or comments, please [contact us](#).

December 2006 update:
 We launched this new GISD interface in September 2006 and asked people to tell their friends and colleagues about it. In November 2006, visitors to the GISD reached an average of 1,100 unique visitors per day (75,000 hits per day), an all-time high. Thank you all, contributors and visitors, for your support.

http://www.invasivespecies.net/database/species/ecology.asp?si=10968fr=18sts=



Challenges prior to using GISIN

- **Excel spreadsheet**
- **No version control – through email**
- **Difficult communication**
- **Very inefficient**



Invasive Species Information Node

Microsoft Excel - P. jocosus [Read-Only]

File Edit View Insert Format Tools Data Window Help

Type a question for help

Arial 10 B I U

	A	B	C	D
1	<i>Pycnonotus jocosus</i>	<i>Pycnonotus jocosus</i> (Linnaeus, 1758)	<i>Pycnor</i>	<i>Pycnor</i>
2	Species Ecology	(see Help.doc for assistance)		
	Please use scientific referencing where appropriate.			
3	Image details for species go on worksheet 8.			
4				
5	Short Scientific Name	<i>Pycnonotus jocosus</i>		
6		e.g. <i>Oryzotolagus cuniculus</i>		
7	Full Scientific Name	<i>Pycnonotus jocosus</i> (Linnaeus, 1758)		
8		e.g. <i>Oryzotolagus cuniculus</i> (Linnaeus, 1758)		
9	Taxonomic Hierarchy and Source	Kingdom=Animalia, Phylum/Division=Chordata, Class=Aves, Order=Passeriformes, Family=Pycnonotidae, Genus=Pycnonotus, Species=jocosus (ITIS, 2007)		
10		e.g. Kingdom=Animalia, Phylum/Division=Chordata, Class=Mammalia, Order=Lagomorpha, Family=Leporidae, Genus=Oryzotolagus, Species=cuniculus (Source: ITIS).		
11	Summary Text	<i>Pycnonotus jocosus</i> is a bird native to Asia which has become invasive to several parts of the world. It has been found to damage crops, compete with native species, and spread invasive plants. Populations should be monitored and contained.		
12		e.g. The rabbit costs primary industry hundreds of millions of dollars per year, and contributes to the extinction/range reduction of native mammals. As prey, it helps build predator populations (use approximately 75 words or 400 characters including spaces).		
13	Description	<i>Pycnonotus jocosus</i>, or the Red-whiskered Bulbul, is a passerine avian. Adults measure 20-22 cm in length with a wingspan of 28 cm and weigh 23-42 g. Identifiable characteristics include its distinctive red ear patch and undertail coverts, a dark brown upperside, tan flanks, and white underside, a thin and notched beak, oval-shaped bristled nostrils, and a black shoulder spur and black head with a pointed crest (Honolulu, undated; Sibley, 2003).		
14	(Image details go on worksheet 8)	e.g. Grey-brown fur and white-grey belly. Adults 1000-2000g. Two pair of upper incisors, the second smaller incisors are behind the first, a feature that distinguishes leporids from rodents. They are smaller than adult hares (Berman, 2002).		
15	Habitat Description	<i>Pycnonotus jocosus</i> has colonized many different terrestrial habitats in temperate, tropical, and subtropical climates (Clergeau, 2001). In its native range, it prefers wet habitats 500-2,000m elevation and is common along forest edges, woodlands, cultivated areas, and urban parks and gardens. <i>P. jocosus</i> is known to nest in shrubs, small trees, hedges, trellises and verandas of buildings or other available ledges or sites 1-9m off the ground. Since they are well adapted to human-altered environments and much of their spread is facilitated by human development (Islam, 1999).		
16		e.g. While the rabbit prefers pasture, grassland, woodland and a moderate climate, its range is limited only by lack of water (Berman, 2002).		
	General Impacts	<i>Pycnonotus jocosus</i> has been found to damage commercial crops, compete with and displace native passerines, prey on endemic young birds and arthropods, and spread invasive plant species (Clergeau, 2001). In California, they significantly damage citrus crops. On Oahu Island, Hawaii, it consumes commercial fruits and		

1. Ecology / 2. Details / 3. Distribution / 4. Distribution Lookup / 5. Similar Species / 6.

Ready

start P. jocosus(D) Microsoft Excel - P. jo...

11:38 AM



Invasive Species Information Node

Microsoft Excel - P. jocosus [Read-Only]

File Edit View Insert Format Tools Data Window Help

Q6 Release from cages, avaries, gardens, etc. is the cause of introduction in several locations.

	E	F	G	H	J	K	M	N
1								
2	Please select from Lookups below							
3	Common Names -	Language	Location of application	Literature reference	Occurs in	Organism type	Invasion pathways to new locations	Descriptive Notes
4	e.g. Coniglio	Italian	Italy	Cotacchi, R. 2001 Animali selvatici dal mondo ed Italia.	Select habitats in which the species occurs from the list below	Select one or two terms e.g. insect, ant (see below)	e.g. Acclimatisation societies (see below)	e.g. Introduced to new colonies as a food
5	Red-whiskered Bulbul	English		(ITIS, 2007)	VERY IMPORTANT	VERY IMPORTANT		
6					natural forest	bird	Transportation of domesticated animals	
7					scrub/shrublands			
8					disturbed areas			
9					agricultural areas			
10					urban areas			
11					planted forests			
12								
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21								
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24								
25								
26								
27								
28					VERY IMPORTANT	VERY IMPORTANT	Please select first from the list of Invasion Paths	
29					Occurs in	Organism type	Invasion pathways to new locations	
30					marine habitats	micro-organism	Acclimatisation Societies	
31					estuaries	macro-fungus	Agriculture	
32					lakes	arachnid	Airrahit	
33					water courses	insect	Aquaculture	
34					wetlands	flatworm	Biological control	
35					riparian zones	nematode	Contaminated bait	
36					coastland	mollusc	Floating vegetation/debris	
37					urban areas	alga	For ornamental purposes	
38					agricultural areas	anemone	Forestry	
39					disturbed areas	coral	Horticulture	
40								

Lookups - Copy

1. Ecology 2. Details 3. Distribution 4. Distribution Lookup 5. Similar Species 6.



Benefits of GISIN

- Will move to online data entry
- Version control
- NZ to USA to NZ to ISIN
- Document sharing
- Ease of use



Invasive Species Information Node

My Home about time you're back, Annie... My Account Log Off ? Help Search:

My Pages ▾ My Communities ▾ Directory ▾ BIO/CBI
NBII All Nodes Help & Support Administration



Inside this Community ▾ Related Communities ▾

HOME | Documents | Calendar | Acronyms | Community Knowledge Directory

Community Projects ? -

<input type="checkbox"/>	Project Name ▲	Status
<input type="checkbox"/>	General I3N	● 25%
<input type="checkbox"/>	Invasive Species Wkg Grp	● 25%
<input type="checkbox"/>	Logistical Staff	● 75%
<input type="checkbox"/>	SpeciesProfiles	● 25%
<input type="checkbox"/>	Steering Committee GISIN	● 25%
<input type="checkbox"/>	Work Area	● 75%

Acronym Search -

GISIN

Global Invasive Species Information Network

Welcome to the GISIN Invasive Species online community - a discussion and implementation of a Global Invasive Species Information Network (GISIN).

Need Help? E-mail Elizabeth Sellers - esellers@usgs.gov.

www.gisnetwork.org



Invasive Species Information Node



http://my.nbii.gov - SpeciesProfiles : Documents - Mozilla Firefox

Project Search: Close

SpeciesProfiles

Overview | Calendar | Tasks | Documents | Discussions

New | Upload | Edit | WebEdit | QuickLinks | Download

Name	Date Modified	Checked In By	Checked Out By
<input checked="" type="checkbox"/> A. artemisiifolia (D).zip	3/13/07 1:51 PM	malee	
<input type="checkbox"/> A. aspersa(D).zip			
<input type="checkbox"/> A. crenata.zip			
<input type="checkbox"/> A. ginnala(D).zip			
<input type="checkbox"/> A. sessilis(D).zip			
<input type="checkbox"/> A. densiflorus.zip			
<input type="checkbox"/> Acanthogobius flavimanus - Yellowf			
<input type="checkbox"/> Acanthogobius_flavimanus.zip			
<input type="checkbox"/> Account Status - August 13 2004.xl			
<input type="checkbox"/> Acer ginnala.zip			

A. artemisiifolia (D).zip

Subscribe | Notify | View Versions

Created By: malee
Date Created: 3/13/07 1:51 PM
Date Modified: 3/13/07 1:51 PM
Size: 4 MB
Location: SpeciesProfiles/A. artemisiifolia (D).zip

Version: 1
Checked In By: malee
Date Published: Never Published

Opening A. artemisiifolia (D).zip

You have chosen to open

A. artemisiifolia (D).zip
 which is a: Compressed (zipped) Folder
 from: http://my.nbii.gov

What should Firefox do with this file?

Open with CompressedFolder (default)

Save to Disk

Do this automatically for files like this from now on.

OK Cancel

Done Done

start | 3 Firefox | My Pictures | mynbii upload - Paint | 12:17 PM



Invasive Species Information Node



issg Database: Ecology of Euphorbia esula - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.invasivespecies.net/database/species/ecology.asp?

Customize Links Free Hotmail Windows Marketplace Windows Media Windows

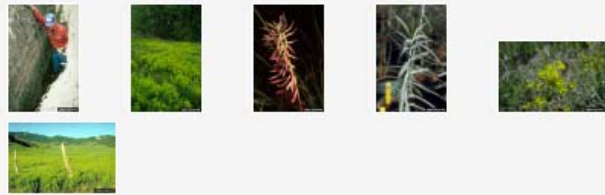
Google Search Bookmarks

WebMail: INBOX: screen shots issg Database: Ecology of Euphor...

all all

Euphorbia esula (herb)

Ecology Distribution Management info Impacts References and Links




Taxonomic name: *Euphorbia esula* (Linnaeus)
Synonyms: *Euphorbia intercedens*, *Euphorbia pseudovirgata*, *Galarhoeus esula*
Common names: Esels-Wolfsmilch (German), leafy spurge (English), spurg
Organism type: herb

Native to Europe and temperate Asia, leafy spurge (Euphorbia esula) current aggressive invader displaces native vegetation by shading and using up available resources of other plants beneath it.

Description
E. esula has hairless, non-woody stems that sprout from a woody crown root in color. Its height ranges from 5- 90 cm. During summer, this plant has yellow clusters at the top of the stem. It grows in very dense stands. An identifying feature is...

javascript:showPopupImage(475,400,600,"e")

http://www.invasivespecies.net - ISSG Databas...



UGA1428098

Foliage of leafy spurge at peak of fall coloring (Photo: William M. Ciesla, Forest Health Management International)

Done



Invasive Species Information Node

Microsoft Excel - P. jocosus [Read-Only]

File Edit View Insert Format Tools Data Window Help

http://bna.birds.cornell.edu - The Birds of North America Online: Red-vent...

1	<i>Pycnonotus jocosus</i>	<i>Pycnonotus jocosus</i> (Linnaeus
2	Species Ecology	(see Help.doc for a
3	Please use scientific referencing where	
4	Image details for species go on worksheet 8.	
5	Short Scientific Name	<i>Pycnonotus jocosus</i>
6		e.g. <i>Oryzotolagus cuniculus</i>
7	Full Scientific Name	<i>Pycnonotus jocosus</i> (Linnaeus
8		e.g. <i>Oryzotolagus cuniculus</i> (Linnaeus, 1758)
9	Taxonomic Hierarchy and Source	Kingdom=Animalia, Phylum/Division=
10		Genus=Pycnonotus, Species=jocosus
11		e.g. Kingdom=Animalia, Phylum/Division=Chordata, D
12		ITIS).
13	Summary Text	<i>Pycnonotus jocosus</i> is a bird n
14		been found to damage crops, compete
15		monitored and contained.
16		e.g. The rabbit costs primary industry hundreds of millic
17	Description	<i>Pycnonotus jocosus</i>, or the Re
18		with a wingspan of 28 cm and weigh 2
19		undertail coverts, a dark brown uppers
20		bristled nostrils, and a black shoulder
21		e.g. Grey-brown fur and white-grey belly. Adults 1000-20
22		leporids from rodents. They are smaller than adult har
23	Habitat Description	<i>Pycnonotus jocosus</i> has color
24		climates(Clergeau, 2001). In its native
25		forest edges, woodlands, cultivated ar
26		shrubs, small, trees, hedges, trellises
27		ground. Since they are well adapted to
28		human development(Islam, 1999).
29		e.g. While the rabbit prefers pasture, grassland, woodla
30	General Impacts	<i>Pycnonotus jocosus</i> has been found to damage commercial crops, compete with and displace native
31		passerines, prey on endemic young birds and arthropods, and spread invasive plant species(Clergeau, 2001). In
32		California, they significantly damage citrus crops. On Oahu Island, Hawaii, it consumes commercial fruits and

© Jack Jeffrey Photography

Red-whiskered Bulbul

Done

1. Ecology / 2. Details / 3. Distribution / 4. Distribution Lookup / 5. Similar Species / 6.

Ready

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