

ADDING THE URBAN TO FORESTRY IMAGES

AN ONLINE IMAGE RESOURCE FOR
ARBORISTS AND URBAN FORESTERS



Joseph LaForest

IPM & Forest Health Coordinator

The Center for Invasive Species & Ecosystem Health

University of Georgia

Tifton, Georgia USA

UNRI Seminar – January 26, 2011

History of



THE UNIVERSITY OF GEORGIA
**CENTER FOR INVASIVE SPECIES
AND
ECOSYSTEM HEALTH**
WARNELL SCHOOL OF FORESTRY AND NATURAL RESOURCES COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

- Established in 1994
- Formerly Bugwood Network
 - **Entomologist** and **Forester**
- Located on Tifton Campus (180 miles from main campus)
- Providing easily accessible resources to educators that need them

Start with taxonomy...

- **Kingdom**
 - **Phylum**
 - **Class**
 - **Order**
 - **Family**
 - **Genus**
 - **Species**
 - **Variety**

Also handles non-biological subjects!

...add a database backbone...

- enables linking to internal AND external resources
- incorporates FIA damage agents, common names, invasive plant lists, Regulated Pest Lists, etc.
- Links to external systems: PLANTS, ITIS, GPDD, NAPIS, NPDN, IndexFungorum, InvasiveSpeciesInfo.gov & others

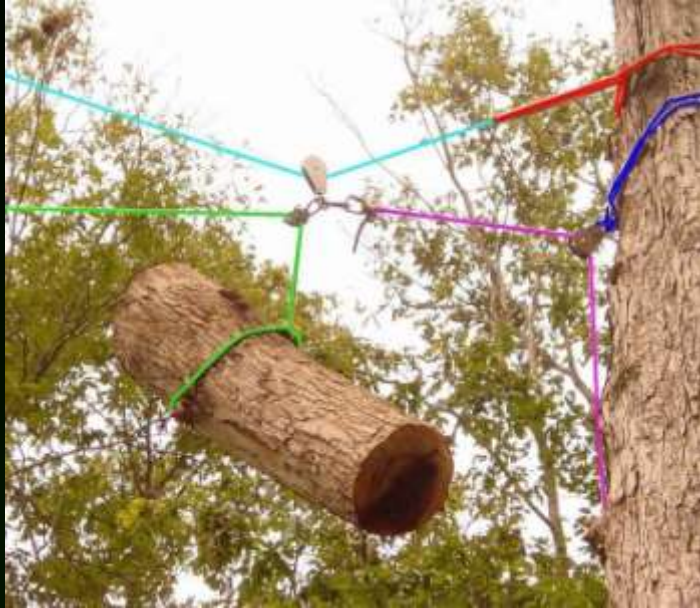
...and ways to group things

- How do subjects relate to each other
 - Diseases, Abiotic Disorders, etc.
 - Foliage, root, fruit or seed feeders, etc.
- The context that an organism is found or a practice is used
 - Pruning
 - Forestry vs. Arboriculture
 - Rhizoctonia solani - Damping off / root rot
 - Turf, cotton, cucumber, tomato, beans...



- Proving freely available images & information for non-commercial, educational uses ... as long as it is cited
 - Photographer, Organization, bugwood.org
- Bugwood **DOES NOT** claim any rights!!
- Database driven - Fully-searchable
- “Taxonomically” based

“A picture is worth a thousand words”



Mark Adams, Downey Trees, Bugwood.org



James N. Long, Utah State University, Bugwood.org



David T. Almquist, University of Florida , Bugwood.org



Pest and Diseases Image Library, Bugwood.org



Joseph O'Brien, USDA Forest Service, Bugwood.org



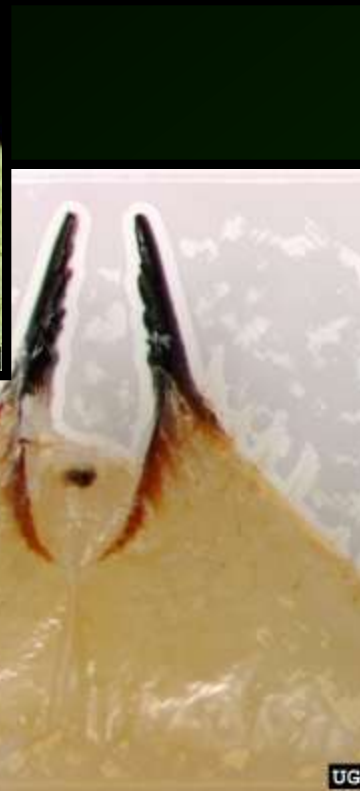
David J. Moorhead, University of Georgia, Bugwood.org

Agrilus planipennis, EAB

Pest and Diseases Image Library, Bugwood.org



D. Cappaert, MSU, Bugwood.org



S-E Spichiger, PA-DCNR, Bugwood.org



D Cappaert, MSU, Bugwood.org



S. Katovich, USDA Forest Service, Bugwood.org



D. R. McKay, USDA APHIS PPQ, Bugwood.org



Joe Murray, Treebio.com, Bugwood.org



Andrew Koeser, ISA, Bugwood.org



Howard F. Schwartz, Colorado State University, Bugwood.org



Joseph O'Brien, USDA Forest Service, Bugwood.org



PA DCNR. - Forestry Archive, Bugwood.org



Joseph LaForest, University of Georgia, Bugwood.org



David Cappaert, Michigan State University, Bugwood.org



Bryan Kotwica, Davey Tree, Bugwood.org

An interface (web site) is worth a thousand pictures (Ben Shneiderman, 2003)

Each discipline, agency and user-group has language that is unique to them, hence we have built interfaces that attempt to incorporate “their” specific language utilizing the same core database!



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Forestry Images: The Source for Forest Health, Natural Resources and Silviculture Images



A joint project between
Bugwood Network
and the USDA Forest Service.



G. Keith Douce, David J. Moorhead, Charles T. Bargerion,
Project Coordinators, The University of Georgia

Image Categories:

Forest Pests

[Insects](#)
[Diseases](#)
[Weeds](#)
[Other Damage Agents](#)

Trees and Stand Types

[Conifer](#)
[Hardwood](#)
[Forest Types](#)

Silvicultural Practices

Invasive Organisms

Forest Plants

Wildlife

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[Introduction to Forest Nursery Management](#)
[4-H/FFA Forestry Field Day Insects and Diseases](#)
[Bark Beetles](#)

Welcome:

Hello. [Login](#) to get full access.

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Random Image:



Image Number:

0745063

Subject:

bark beetles

Description:

Damage; Ips and Southern Pine beetles pitch tubes, including red top trees shot from ground up trunk

Photographer:

Erich G. Vallery

Search: [Advanced Search](#)Welcome back, Chuck Bargeron, [logout?](#)

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Related Sites

[The Bugwood Network](#)[Forest Pests](#)[IPM Images](#)[Invasive and Exotic Species](#)[Forestry Images](#)

Insect Images

The Source for Entomology Photos

A joint project of the University of Georgia and the USDA Forest Service.
Project Coordinators: [Keith Douce](#), [David Moorhead](#) & [Charles Bargeron](#).

Image Categories

Categories:

[ants, bees, sawflies, wasps, and allies](#)[beetles and weevils](#)[bugs, cicadas, aphids and scale insects](#)[butterflies, moths, and skippers](#)[cockroaches](#)[damselflies and dragonflies](#)[earwigs](#)[flies](#)[grasshoppers, katydids, crickets](#)[lacewings, antlions and others](#)[lice](#)[mantids](#)[silverfish, firebrats](#)[termites](#)[thrips](#)[walkingsticks](#)

Insect Orders:

[Blattodea](#)[Coleoptera](#)[Dermaptera](#)[Diptera](#)[Mantodea](#)[Neuroptera](#)[Odonata](#)[Orthoptera](#)

Random Image

**bollworm**

Photo by Ronald Smith

Statistics

35242 Images

836 Photographers

5713 Subjects



Browse by:

[Commodity](#)

[Taxonomy](#)

[Damage Types](#)

[Photographers](#)

[Organization](#)

[Location](#)

General Information

[What is IPM Images?](#)

[How to Contribute?](#)

[Statistics](#)

[Contact Us](#)

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[Forestry Images](#)

[Insect Images](#)

[Invasive.org](#)

[Forest Pests](#)

[Widely Prevalent Fungi](#)

[Diagnostician's Cookbook](#)

Related Sites

[National Plant Diagnostic Network](#)

[Southern Plant Diagnostic Network](#)

[Great Plains Diagnostic](#)

Commodity Groups

Agronomic Crops

[Barley](#)

[Canola](#)

[Corn](#)

[Cotton](#)

[Grain Sorghum and Small Grains](#)

[Millet](#)

[Oats](#)

[Peanuts](#)

[Rice](#)

[Rye](#)

[Safflower](#)

[Soybeans](#)

[Sugarcane](#)

[Sunflowers](#)

[Tobacco](#)

[Wheat](#)

Vegetables

Fruits and Nuts

Grain Sorghum and Small Grains

Human and Household Pests

Ornamentals

Pasture and Forage

Lawn and Turf

Honey Bees and Beekeeping

Livestock and Poultry

Post Harvest

Crop Management

Irrigation

Plant Pathogen Media Library

Forestry, Wildlife and Natural Resources

Taxonomy

Animals

[Arthropods](#)

[Mollusks](#)

[Nematodes](#)

[Vertebrates](#)

Damage Types

Insects

[Foliage Feeding Insects](#)

[Bark Beetles and Phloem Feeders](#)

[Boring Insects](#)

[Piercing and Sucking Insects](#)

Random Image



eastern poison-ivy

Photo by Paul Wray, Iowa State University

Statistics

121,842 images

13,979 subjects

1,648 photographers

News and Site Updates

[Lady Bugs to Rescue in the Galapagos](#)

[Keeping Invasives in Check](#)

[Top Ten Invasive Species](#)

[Stopping Lionfish Invasion](#)

[Center Staff Leads Workshop at 25th Annual FL EPPC Meeting](#)

[Counting the Cost of Invasive Species](#)

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[Maps](#)

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[CWMAs/CISMA's](#)

[How to ...](#)

[Global](#)

Invasive and Exotic Species to North America

any species, including its seeds, eggs, spores, or other biological material capable of propagating that species, that is not native to that ecosystem; and whose introduction does or is likely to cause economic or environmental harm or harm to human health.

Plants



Insects



Pathogens



Other Species



NEWS

- [Scientists Find Evidence of Casuarina Hybrids](#)
- [40 new species found in New Guinea](#)
- [How prepared is the U.S. to meet future botanical challenges?](#)
- [Aquatic Invasives by Graves Lovell](#)
- [More News](#)

LINKS

- [Pest Tracker](#)
- [USDA APHIS PPQ - Pest Detection](#)
- [USDA Forest Service - Invasive Species Program](#)
- [National Invasive Species Information Center](#)
- [Global Invasive Species Database](#)
- [North American Plant Protection Organization](#)
- [European and Mediterranean Plant Protection Organization](#)



Global Invasive Species Team

The Nature Conservancy Global Invasive Species Team Website

TNC's Global Invasive Species Team (GIST) was disbanded in March 2009. The GIST web site including the Element Stewardship Abstracts, images and INVASIPEDIA were in danger of becoming lost. Invasive.org in collaboration with the Global Invasive Species Team, is pleased to announce that the GIST web site has been archived.

[More info...](#)



Invasive Plant Atlas of the U.S.

This web site is a collaborative project between the National Park Service and the University of Georgia - Center for Invasive Species and Ecosystem Health. [More info...](#)



Cogongrass Road Crew Training Resources

Cogongrass (*Imperata cylindrica*) is one of the worst invasive plants we have in the South. This link contains information and resources for

Extension agents to conduct a short informational training program for their county road crews. [More info...](#)



Invasive Plants of the United States: Identification, Biology and Control

This web site includes 218 invasive



Invasive Plant Responses to Silvicultural Practices in the South

SUPPORTERS



Bugwood Image Database System

<http://images.bugwood.org/>

- **Launched online in 2001 with 3,500 images**
 - **Images: 137,200**
 - **Photographers: 1,720**
 - **Subjects: 15,200**
 - **Registered Members: 56,500**

Current system statistics

- In 2010...
 - 224 million hits
 - 8 million unique users
 - Number of Educational requests: 6,946
 - Number of Personal requests: 3,164
 - Number of Commercial requests: 1,370
 - Total Number of Requests: 11,480
 - Total Images Requested: 71,500
(Not including individual downloads)

Location of User Audience





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Fi

Forestry Images: The Source for Forest Health, Natural Resources and Silviculture Images

A joint project between
Sugwood Network
and the U.S. Forest Service.



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Charles T. Barger, Jr.
Forest Service of Georgia

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Forest Pests

[Insects](#)
[Diseases](#)
[Weeds](#)
[Other Damage Agents](#)

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[4-H/FFA Forestry Field Day Insects and Diseases](#)
[Bark Beetles](#)

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Random Image:



Subject:
[bark beetles](#)

Description:
Damage; Ips and Southern Pine
beetles pitch tubes, including red
top trees shot from ground up trunk

Photographer:
Erich G. Vallery

Where's the Urban??

Enter the US Forest Service

- **Urban and Community Forestry**
 - How can we categorize images related to urban and community forestry?
 - Working out a rough framework...
 - Testing the system with Forest Service Images
 - Tree Defects
 - Tree Diseases
 - Tree Failures

Involving the International Society of Arboriculture

- Would this be useful?
 - That depends...
 - ISA had an internal archive of images
 - Images and illustrations used in publications
 - Some of the images are public...some are not
1. Can the existing system run one archive with a public and a private side?
 2. Can we make a place where people can better access only the public images?

Let's give it a try

- Start by entering the existing ISA Images
- Create an ISA Internal Interface for all images – Public and Private
- Create an “Urban” page on www.forestryimages.org
- More testing of the framework and making improvements

How did it go?

- **Pretty well**
 - Redesign of Forestry Images for Public Pages
 - Setup of ISA Private Interface
- **Some Growing Pains**
 - Classifying Non-taxonomic subjects...
...continuing to evolve



Browse By

[Photographers](#)

[Organization](#)

[Location](#)

[Hosted Archives](#)

[Selected Image Sets](#)

[Image Series](#)

General Info

[What is Forestry Images?](#)

[Membership Benefits](#)

[Frequently Asked Questions](#)

[Finding Images](#)

[Using Images](#)

[Adding Images](#)

[Statistics](#)

[Contact Us](#)

Related Sites

[International Society of](#)

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[Forest Pests](#)

[IPM Images](#)

[Invasive and Exotic Species](#)

[Insect Images](#)

Image Categories

Forest Pests

Insects

| [Bark Beetles](#) | [Foliage Feeding](#) | [Wood Boring](#) | [Invasive](#) |

Diseases

| [Foliage Diseases](#) | [Root & Butt Diseases](#) |

Other Damage Agents

| [Invasive Plants](#) | [Parasitic Plants](#) | [Human](#) | [Animal](#) |

Trees, Plants, and Stand Types

Trees

| [Conifers](#) | [Hardwoods](#) | [Mixed Stands](#) |

Understory and Rangeland Plants

| [Forbs](#) | [Shrubs](#) | [Vines](#) | [Grasses](#) |

Silvicultural Practices

| [Fire](#) | [Harvest Operations](#) | [Natural Regeneration](#) |

Urban Forestry

| [General](#) | [Tree Defects](#) | [Urban Tree Care](#) |

Wildlife

| [Mammals](#) | [Birds](#) | [Reptiles & Amphibians](#) |

People, Places and Scenes

| [North America](#) | [Africa](#) | [Miscellaneous](#) |

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Password:

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Random Image



fire

Photo by Dale Wade, Rx Fire Doctor

Statistics

130,035 images

14,440 subjects

1,678 photographers

News & Site Updates

[Foreign Turtles Don't Bother Tadpoles](#)

[Everglades Invasives Video](#)

[L'Oreal Volunteers Remove Invasives from Park](#)

[40 Ton Whale Lands on Yacht](#)

[Experts Testing Harmful Mussel](#)

[Tadpoles](#)

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[Photographers](#)
[Organization](#)
[Location](#)
[Hosted Archives](#)
[Selected Image Sets](#)
[Image Series](#)

General Info

[What is Forestry Images?](#)
[Membership Benefits](#)
[Frequently Asked Questions](#)
[Finding Images](#)
[Using Images](#)
[Adding Images](#)
[Statistics](#)
[Contact Us](#)

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[International Society of](#)
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[IPM Images](#)
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[Insect Images](#)

Urban Forestry Topics

Urban Forestry

[Benefits](#)
[Management](#)
[Tree Risk Management](#)
[Urban Tree Conflicts](#)
[Urban Tree Nursery](#)
[Urban Trees and Landscapes](#)
[Wood Utilization](#)

Tree Defects

[Canker](#)
[Crack](#)
[Deadwood](#)
[Decay](#)
[Poor Architecture](#)
[Root Problems](#)
[Weak Branch Union](#)

Arboriculture

[Cabling, Bracing, and Guying](#)
[Misc. Tree Care](#)
[Pesticide Application](#)
[Planting](#)
[Pruning](#)
[Safety](#)
[Storm Planning, Damage and Response](#)
[Technology, Tools, Equipment](#)
[Tree Removal](#)
[Tree Risk Assessment](#)

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[Biology](#)
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Ornamental Trees

Urban Plant Health Issues

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[Diseases](#)
[Abiotic Disorders](#)


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Photo by Howard Schwartz, Colorado State University

Narrow Results by: Subject Specific Filters:

Category: (show all)

Hardwood Trees (277)

Shrub or Subshrub (129)

Conifer Trees (57)

Palms (8)

Vines (5)

Order: (show all)

Pinales (59)

Rosales (48)

Fagales (46)

Sapindales (45)

Fabales (23)

Family: (show all)

Rosaceae (48)

Pinaceae (36)

Betulaceae (24)

Aceraceae (23)

Fabaceae (Leguminosae) (23)

Image Specific Filters:

Descriptor: (show all)

Tree(s) (651)

Foliage (347)

Cultivar (278)

Flower(s) (260)

Ornamentals: Trees

Remove Filters: Plants^(X)

1,958 Images of 403 Subjects

[View Subject List](#)

[View Image Details](#)

[View Thumbnails](#)

Page: 1/7 Display: 60

Subject	Scientific Name	Images
'ohi'a lehua	<i>Metrosideros polymorpha</i>	2
a li shan e er li	<i>Carpinus kawakamii</i>	1
African tuliptree	<i>Spathodea campanulata</i>	3
Alexandrian laurel	<i>Calophyllum inophyllum</i>	3
Allegheny serviceberry	<i>Amelanchier laevis</i>	2
alligator juniper	<i>Juniperus deppeana</i>	3
alternateleaf dogwood	<i>Cornus alternifolia</i>	18
American basswood	<i>Tilia americana</i>	3
American beech	<i>Fagus grandifolia</i>	5
American chestnut	<i>Castanea dentata</i>	1
American cranberrybush	<i>Viburnum opulus var. americanum</i>	1
American elm	<i>Ulmus americana</i>	22
American germander	<i>Teucrium canadense</i>	1
American hazelnut	<i>Corylus americana</i>	9
American holly	<i>Ilex opaca</i>	1
American hornbeam	<i>Carpinus caroliniana</i>	3
American oil palm	<i>Attalea butyracea</i>	3
American plum	<i>Prunus americana</i>	6
American sycamore	<i>Platanus occidentalis</i>	7

Narrow Results by:
Subject Specific Filters:

Category: (show all)

[Hardwood Trees \(277\)](#)

[Shrub or Subshrub \(129\)](#)

[Conifer Trees \(57\)](#)

[Palms \(8\)](#)

[Vines \(5\)](#)

Order: (show all)

[Pinales \(59\)](#)

[Rosales \(48\)](#)

[Fagales \(46\)](#)

[Sapindales \(45\)](#)

[Fabales \(23\)](#)

Family: (show all)

[Rosaceae \(48\)](#)

[Pinaceae \(36\)](#)

[Betulaceae \(24\)](#)

[Aceraceae \(23\)](#)

[Fabaceae \(Leguminosae\) \(23\)](#)

Image Specific Filters:

Descriptor: (show all)

[Tree\(s\) \(651\)](#)

[Foliage \(347\)](#)

[Cultivar \(278\)](#)

[Flower\(s\) \(260\)](#)

[Bark \(113\)](#)

Gender:

[Male \(6\)](#)

[Female \(4\)](#)

Image Setting:

[Field \(1733\)](#)

[Laboratory \(4\)](#)

[Museum \(3\)](#)

Ornamentals: Trees

Remove Filters: Plants^(x)

1,958 Images of 403 Subjects

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Page: 1/33 Display: 60



0008006
redosier dogwood
Cornus sericea
Bark
Paul Wray



0008015
paper birch
Betula papyrifera
Bark
Paul Wray



0008016
paper birch
Betula papyrifera
Bark
Paul Wray



0008017
river birch
Betula nigra
Bark
Paul Wray



0008018
river birch
Betula nigra
Bark
Paul Wray



0008024
common horse chestnut
Aesculus hippocastanum
Bark
Paul Wray



0008030
red mulberry



0008050
eastern redbud



0008051
serviceberry

Narrow Results by: Subject Specific Filters:

Category:

[Hardwood Trees \(100\)](#)
[Shrub or Subshrub \(54\)](#)
[Crops \(2\)](#)

Order: (show all)

[Rosales \(31\)](#)
[Sapindales \(15\)](#)
[Cornales \(9\)](#)
[Fabales \(8\)](#)
[Fagales \(8\)](#)

Family: (show all)

[Rosaceae \(31\)](#)
[Aceraceae \(9\)](#)
[Cornaceae \(9\)](#)
[Fabaceae \(Leguminosae\) \(8\)](#)
[Magnoliaceae \(7\)](#)

Image Specific Filters:

Gender:

[Male \(6\)](#)
[Female \(1\)](#)

Image Setting:

[Field \(214\)](#)
[Museum \(1\)](#)

View:

[Close-up \(1\)](#)

Country: (show all)

[United States \(200\)](#)

Ornamentals: Trees

[Remove Filters: Plants^{\[X\]} Flower\(s\)^{\[X\]}](#)

260 Images of 114 Subjects

[View Subject List](#)
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Page: 1/5 Display: 60



0008053

European alder
Ainus glutinosa
Flower(s)
Paul Wray



0008054

European alder
Ainus glutinosa
Flower(s)
Paul Wray



0008062

buckeye
Aesculus spp.
Flower(s)
Paul Wray



0008063

buckeye
Aesculus spp.
Flower(s)
Paul Wray



0008072

southern crabapple
Malus angustifolia
Flower(s)
Paul Wray



0008073

southern crabapple
Malus angustifolia
Flower(s)
Paul Wray



0008074

alternateleaf dogwood
Cornus alternifolia



0008075

redosier dogwood
Cornus sericea



0008076

redosier dogwood
Cornus sericea

Browse By

[Photographers](#)
[Organization](#)
[Location](#)
[Hosted Archives](#)
[Selected Image Sets](#)
[Image Series](#)

General Info

[What is Forestry Images?](#)
[Membership Benefits](#)
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[Finding Images](#)
[Using Images](#)
[Adding Images](#)
[Statistics](#)
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[Insect Images](#)

Urban Forestry Topics

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[Benefits](#)
[Management](#)
[Tree Risk Management](#)
[Urban Tree Conflicts](#)
[Urban Tree Nursery](#)
[Urban Trees and Landscapes](#)
[Wood Utilization](#)

Tree Defects

[Canker](#)
[Crack](#)
[Deadwood](#)
[Decay](#)
[Poor Architecture](#)
[Root Problems](#)
[Weak Branch Union](#)

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[Cabling, Bracing, and Guying](#)
[Misc. Tree Care](#)
[Pesticide Application](#)
[Planting](#)
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[Safety](#)
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[Tree Removal](#)
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[Biology](#)
[People and Trees](#)
[Urban Soils](#)

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Urban Plant Health Issues

[Insects](#)
[Diseases](#)
[Abiotic Disorders](#)


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5360427

Photo by Howard Schwartz, Colorado State University

Narrow Results by:
Subject Specific Filters:

Category: (show all)

[Foliage Feeding Insects \(169\)](#)

[Piercing and Sucking Insects \(103\)](#)

[Boring Insects \(82\)](#)

[Gallmaker Insects \(37\)](#)

[Terminal, Tip, Stem and Shoot Insects \(29\)](#)

Order: (show all)

[Coleoptera \(150\)](#)

[Lepidoptera \(125\)](#)

[Hemiptera \(118\)](#)

[Hymenoptera \(52\)](#)

[Acari \(20\)](#)

Family: (show all)

[Curculionidae \(49\)](#)

[Cerambycidae \(42\)](#)

[Aphididae \(24\)](#)

[Buprestidae \(21\)](#)

[Chrysomelidae \(21\)](#)

Image Specific Filters:

Descriptor: (show all)

[Adult\(s\) \(755\)](#)

[Damage \(542\)](#)

[Larva\(e\) \(431\)](#)

[Infestation \(164\)](#)

[Egg\(s\) \(99\)](#)

Gender:

[Female \(42\)](#)

[Pair \(21\)](#)

[Male \(14\)](#)

Ornamentals: Trees

Remove Filters: Insects^(X)

2,440 Images of 487 Subjects

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Page: 1/41 Display: 60



0488022

sawfly parasitic wasp
Monodontomerus dentipes
Larva(e)
John H. Ghent



0488026

gypsy moth
Lymantria dispar
Larva(e)
John H. Ghent



0488036

periodical cicada
Magicicada septendecim
Adult(s)
John H. Ghent



0488037

periodical cicada
Magicicada septendecim
Damage
John H. Ghent



0590094

southern pine beetle
Dendroctonus frontalis
Control
Robert L. Anderson



0590096

southern pine beetle
Dendroctonus frontalis
Control
Robert L. Anderson



0656062

oriental beetle
Exomala orientalis
Feature(s)
H. Sawada



0660080

Japanese beetle
Popillia japonica
Adult(s)
USDA ARS Photo Unit



0717044

root anhid

Narrow Results by:
Subject Specific Filters:

Category: (show all)

[Foliage Feeding Insects \(99\)](#)

[Boring Insects \(17\)](#)

[Leafmining Insects -](#)

[Needlemining insects \(10\)](#)

[Seed, Cone, Flower, Bud and](#)

[Fruit Damaging Insects \(10\)](#)

[Casebearers, leafrollers and](#)

[bagworms \(7\)](#)

Order: (show all)

[Lepidoptera \(74\)](#)

[Coleoptera \(44\)](#)

[Hymenoptera \(24\)](#)

[Diptera \(2\)](#)

[Neuroptera \(1\)](#)

Family: (show all)

[Tenthredinidae \(15\)](#)

[Cerambycidae \(12\)](#)

[Chrysomelidae \(12\)](#)

[Curculionidae \(11\)](#)

[Notodontidae \(9\)](#)

Image Specific Filters:

Image Setting:

[Field \(231\)](#)

[Laboratory \(74\)](#)

[Museum \(15\)](#)

View:

[Lateral \(2\)](#)

[Identifying Feature \(2\)](#)

[Dorsal \(1\)](#)

[Posterior \(1\)](#)

[Dorsal-Lateral \(1\)](#)

Ornamentals: Trees

Remove Filters: Insects^(x) Larva(e)^(x)

430 Images of 146 Subjects

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Page: 1/8 Display: 60



0488026
 gypsy moth
Lymantria dispar
 Larva(e)
 John H. Ghent



0795026
 hickory horned devil
Citheronia regalis
 Larva(e)
 Gerald J. Lenhard



0886002
 gypsy moth
Lymantria dispar
 Larva(e)
 Tim Tigner



0949054
 Asian long-horned beetle
Anoplophora glabripennis
 Larva(e)
 Kenneth R. Law



1123004
 bagworm
Thyridopteryx ephemeraeformis
 Larva(e)
 Rayanne Lehman



1123016
 dusty-wings
 Larva(e)
 Rayanne Lehman



1192024
 scarabs or scarab beetles
 Larva(e)



1199014
 eastern pine seedworm
Cydia toreuta



1204001
 walnut caterpillar
Datana integerrima

Narrow Results by:
Subject Specific Filters:

Category: (show all)

Foliage Feeding Insects (60)

Seed, Cone, Flower, Bud and
Fruit Damaging Insects (8)

Casebearers, leafrollers and
bagworms (7)

Leafmining Insects -
Needlemining Insects (5)

Chewing Insects (2)

Family: (show all)

Notodontidae (9)

Tortricidae (9)

Saturniidae (8)

Geometridae (7)

Lasiocampidae (6)

Image Specific Filters:

Image Setting:

Field (132)

Laboratory (29)

Museum (6)

View:

Dorsal-Lateral (1)

Country: (show all)

United States (198)

Hungary (28)

Czechia (13)

Slovakia (7)

Spain (6)

Author: (show all)

Lacy L. Hyche (49)

Gyorgy Csoka (43)

Steven Katovich (18)

Ornamentals: Trees

Remove Filters: Insects^(X) Lepidoptera^(X) Larva(e)^(X)

258 Images of 74 Subjects

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Page: 1/5 Display: 60



0488026
gypsy moth
Lymantria dispar
Larva(e)
John H. Ghent



0795026
hickory horned devil
Citheronia regalis
Larva(e)
Gerald J. Lenhard



0886002
gypsy moth
Lymantria dispar
Larva(e)
Tim Tigner



1123004
bagworm
Thyridopteryx ephemeraeformis
Larva(e)
Rayanne Lehman



1199014
eastern pine seedworm
Cydia toreuta
Larva(e)
Steven Katovich



1204001
walnut caterpillar
Datana integerrima
Larva(e)
Lacy L. Hyche



1204002
walnut caterpillar
Datana integerrima
Larva(e)



1204003
walnut caterpillar
Datana integerrima
Larva(e)





hickory horned devil
Citheronia regalis (Fabridus)

Descriptor: Larva(e)
Image location: United States

Photographer Information

Name: Gerald J. Lenhard
Organization: Louisiana State Univ
Country: United States

More Images:

Subject: [hickory horned devil](#)

Genus: [Citheronia](#)

Family: [Saturniidae](#)

Order: [Lepidoptera](#)

Class: [Hexapoda \(including Insecta\)](#)

Photographer: [Gerald J. Lenhard](#)

Organization: [Louisiana State Univ](#)

Area: [Forestry - Hardwood](#)

Area: [Ornamentals - Trees](#)

Image Number: **0795026**

[f](#) [t](#) [e](#) [c](#) [s](#) [p](#) [p](#) [r](#) [i](#) [t](#) [m](#) [o](#) [r](#) [e](#)

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Image Use:^(?) You must attribute the work in the manner specified (but not in any way that suggests endorsement).

Image Citation:^(?) Gerald J. Lenhard, Louisiana State Univ,
Bugwood.org

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hickory horned devil

Citheronia regalis (Fabricius)

[View Information](#)[View Details](#)[View Thumbnails](#)

Narrow Results by: Image Specific Filters:

Descriptor:

[Larva\(e\) \(35\)](#)[Adult\(s\) \(7\)](#)[Pupa\(e\) \(1\)](#)

Commodity:

[Hardwood \(26\)](#)[General Entomology \(13\)](#)[Trees \(3\)](#)[Misc. Pests \(2\)](#)[Miscellaneous Entomology \(1\)](#)

Image Setting:

[Field \(10\)](#)[Laboratory \(5\)](#)[Museum \(3\)](#)

View:

43 Images



Page: 1/1



Display:

60



3225046

Adult(s)

Ronald F. Billings



3225047

Larva(e)

Ronald F. Billings



3225071

Adult(s)

Ronald F. Billings



3225085

Pupa(e)

Ronald F. Billings



3226005

Larva(e)

Ronald F. Billings



3226068

Larva(e)

Ronald F. Billings

hickory horned devil

***Citheronia regalis* (Fabricius)**

[View Information](#)[View Details](#)[View Thumbnails](#)

Jump to: [Taxonomy](#) | [Other System Links](#) | [References](#)

Taxonomic Rank

Kingdom: Animalia

Phylum: Arthropoda

Subphylum: Atelocerata

Class: [Hexapoda \(including Insecta\)](#) 

Infraclass: Neoptera

Subclass: Pterygota

Order: [Lepidoptera](#)

Superfamily: Bombycoidea

Family: [Saturniidae](#)

Subfamily: Ceratocampinae

Tribe: No tribes assigned

Genus: [Citheronia](#) 

Other System Links

NPDN Pest: ITBNAFA

References

Common Name Reference: [Bosik, J. J. Common Names of Insects and Related Organisms 1997. Lanham, MD: Entomological Society of America \(ESA\), 1997. 232 pp.](#)

Scientific Name Reference: [R.W. Poole and P. Gentili, Nomina Insecta Nearctica. 1996. Nomina insecta nearctica: a checklist of the insects of North America. Vol. 3. Rockville \(MD\): Entomological Information Services. Available at URL: <http://www.nearctica.com/nomina/main.htm>](#)

annosum root disease

Heterobasidion annosum (Fr) Bref.

BUGWOODWiki
Article

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Jump to: [Resources](#) | [Selected Images](#) | [Maps](#) | [Taxonomy](#) | [Other System Links](#) | [References](#)

Resources

- [Insects and Diseases of Trees in the South](#) - USDA Forest Service
- [Forest Insect and Disease Leaflet](#) - USDA Forest Service

Selected Images

6 Images

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More



0364057

annosum root disease
Heterobasidion annosum
Fruiting Bodies
Robert L. Anderson



1436147

annosum root disease
Heterobasidion annosum
Fruiting Bodies
Clemson University - USDA
Cooperative Extension Slide Series



2250051

annosum root disease
Heterobasidion annosum
Symptoms
USDA Forest Service Archive

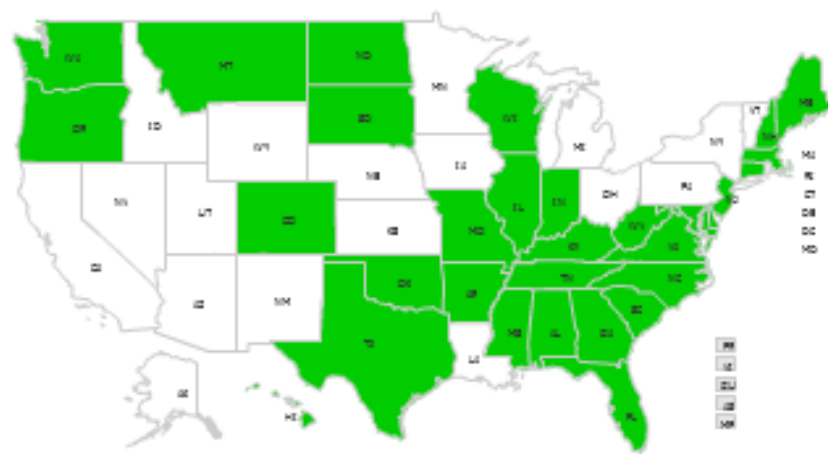


2250066

annosum root disease
Heterobasidion annosum
Symptoms
I. Blakey Lockman

Maps

Widely Prevalent Plant Pathogen Status - This map is based on data from the Widely Prevalent Fungi Project, a collaboration between [USDA APHIS PPQ](#) and the [American Phytopathological Society](#). See www.PrevalentFungi.org for more information.



Taxonomic Rank

Kingdom: Fungi

Phylum: Basidiomycota

Subphylum: Hymenomycotina

Class: [Agaricomycetes](#)

Subclass: Agaricomycetidae

Order: [Russulales](#)

Family: [Bondarzewiaceae](#)

Genus: [Heterobasidion](#)

Other System Links

Species Fungorum: [119859](#)

NPDN Pest: FICBHAU

References

Common Name Reference: Hansen, E.M. and K.J. Lewis. 1997. Compendium of Conifer Diseases. APS Press. 3340 Pilot Knob Road, St. Paul, MN 55121-2097. 101 pp.

Scientific Name Reference: [Index Fungorum](#). Paul Kirk. CABI, CBS and Landcare Research. <http://www.indexfungorum.org/>

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[Crack](#)
[Deadwood](#)
[Decay](#)
[Poor Architecture](#)
[Root Problems](#)
[Weak Branch Union](#)

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[Diseases](#)
[Abiotic Disorders](#)


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5360427

Photo by Howard Schwartz, Colorado State University

Narrow Results by:
Subject Specific Filters:

Type:

[Management \(25\)](#)

[Other Damage Agents \(8\)](#)

Category:

[Urban Forestry \(17\)](#)

[Tree Defects \(9\)](#)

[Human Caused Damage \(5\)](#)

[Abiotic Damage \(3\)](#)

Order:

[Abiotic \(6\)](#)

[Physiological disorder \(1\)](#)

Image Specific Filters:

Descriptor:

[\(show all\)](#)

[Damage \(121\)](#)

[Sign \(26\)](#)

[Symptoms \(16\)](#)

[Diagram or Graphic \(8\)](#)

[Improper technique \(8\)](#)

Gender:

[Male \(1\)](#)

Image Setting:

[Field \(149\)](#)

[Museum \(10\)](#)

Person in Image:

[Yes \(3\)](#)

Country:

[United States \(203\)](#)

[Kenya \(1\)](#)

Urban Forestry: Urban Tree Conflicts

204 Images of 33 Subjects

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Page: 1/4 Display: 60



0005091

human caused injury
Damage
David J. Moorhead



0886033

Road salt or de-icing salt
Damage
Tim Tigner



1119408

imbedded objects
Damage
Chris Evans



1238200

human caused injury
Damage
Randy Cyr



1238202

human caused injury
Damage
Randy Cyr



1238203

imbedded objects
Damage
Randy Cyr



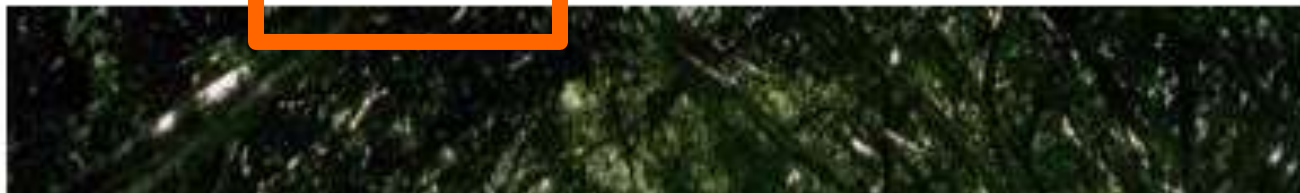
1238206

imbedded objects





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- Images of anything related to the care of trees in urban environments
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 - Cultural practices
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Narrow Results by: Subject Specific Filters:

Type:

[Plants \(58\)](#)
[Insects \(28\)](#)
[Management \(22\)](#)
[Diseases \(18\)](#)
[Wildlife \(7\)](#)
[Other Damage Agents \(5\)](#)
[Misc. \(1\)](#)

Category:

[\(show all\)](#)
[Forbs/Herbs \(26\)](#)
[Tree Defects \(13\)](#)
[Misc. Fungi \(12\)](#)
[Foliage Feeding Insects \(9\)](#)
[Shrub or Subshrub \(9\)](#)

Order:

[\(show all\)](#)
[Coleoptera \(8\)](#)
[Fabales \(8\)](#)
[Agaricales \(7\)](#)
[Cyperales \(7\)](#)
[Lepidoptera \(7\)](#)

Image Specific Filters:

Descriptor:

[\(show all\)](#)
[Adult\(s\) \(153\)](#)
[Flower\(s\) \(97\)](#)
[Fruiting Bodies \(80\)](#)

Joseph LaForest's Images

Title: IPM and Forest Health Specialist

Organization: University of Georgia

Unit: The Bugwood Network

Country: United States

Web: <http://www.bugwood.org>
Professional Societies:


Center for Invasive Species and Ecosystem Health BUGWOOD NETWORK



Joseph LaForest is the Integrated Pest Management and Forest Health Specialist for the Bugwood Network at the University of Georgia. Previously, he was the pest manager of Dow Gardens in Midland, Michigan and worked to further develop their adult education programs. He is a Certified Arborist in the International Society of Arboriculture and has worked in various parts of the green industry for the last 12 years. His interests include promoting holistic plant health care through development of integrated pest management solutions, developing resources to be used in educating and assisting green industry workers, and teaching. His current duties include developing scouting guides and keys, classifying images, verifying taxonomy, and developing other educational resources.

838 Images of 139 Subjects

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Page: 1/14 Display: 60



2187037

giant puffball

Langermannia gigantea

Fruiting Bodies

Joseph LaForest



2187038

thick-walled maze polypore

Daedalea quercina

Fruiting Bodies

Joseph LaForest



2187039

gulf fritillary

Agraulis vanillae

Adult(s)

Joseph LaForest



Narrow Results by:
Subject Specific Filters:

Type:

Insects (1330)

Plants (700)

Diseases (172)

Wildlife (170)

Management (72)

Other Damage Agents (36)

Misc. (17)

Herbicides (6)

Nematodes (3)

Physical Landscape (3)

Category: (show all)

Fungus Feeding Insects -

Mycophagous (964)

Forbs/Herbs (349)

Shrub or Subshrub (159)

Foliage Feeding Insects (120)

Hardwood Trees (110)

Order: (show all)

Coleoptera (1040)

Lepidoptera (94)

Hemiptera (84)

Fabales (65)

Cyperales (61)

Image Specific Filters:

Descriptor: (show all)

University of Georgia



The University of Georgia

The University of Georgia, a land-grant and sea-grant university with state-wide commitments and responsibilities, is the state's flagship institution of higher education. It is also the state's oldest, most comprehensive and most diversified institution of higher education. Its motto, "to teach, to serve and to inquire into the nature of things," reflects the university's integral and unique role in the conservation and enhancement of the state's and nation's intellectual, cultural and environmental heritage.

10,950 Images of 2,509 Subjects

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Page: 4/183 Display: 60



0010163

southern pine beetle
Dendroctonus frontalis
Competition
David J. Moorhead



0010164

southern pine beetle
Dendroctonus frontalis
Damage
David J. Moorhead



0010165

southern pine beetle
Dendroctonus frontalis
Competition
David J. Moorhead



0010166

Ips engraver beetles
Ips spp.
Damage
David J. Moorhead



0013079

southern pine beetle
Dendroctonus frontalis
Damage
Chuck Bargerion



0016363

herbicides
Competition
David J. Moorhead

Image Request Summary

Photographer: Joseph LaForest

Dates: 12/31/2009 to 1/1/2011

Request Summary Statistics

Number of Educational requests: 133
 Number of Personal requests: 84
 Number of Commercial requests: 38
 Total Number of Requests: 255
 Total Images Requested: 406

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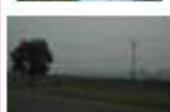



1-10		11-20		21-30		31-40	
Image	Requests	Image	Requests	Image	Requests	Image	Requests
	41		12		4		2
	35		11		4		2
	26		11		3		2
	26		9		3		2
	24		7		3		2
	23		6		2		1
	20		5		2		1
	15		5		2		1
	13		5		2		1
	12		5		2		1

Image views summary

Photographer: Joseph LaForest

Publicly Available Images: 840

(as of 1/22/2011)

Dates: 12/31/2009 to 1/1/2011

Image Views Summary Statistics

Views on [Forestry Images](#): 64,031

Views on [IPM Images](#): 24,775

Views on [Invasive.org](#): 17,361

Views on [Insect Images](#): 13,172

Views on [Weed Images](#): 207

Total Image Views: 119,546



















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1-10		11-20		21-30		31-40	
Image	Views	Image	Views	Image	Views	Image	Views
	467		306		268		237
	429		301		264		236
	428		299		262		236
	371		296		260		231
	368		295		257		231
	362		291		249		231
	340		285		241		227
	336		284		241		225
	335		282		240		222
	323		275		239		221

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images.bugwood.org



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Location

Photographer


Contact

Subject

Host

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 Click here to install the following ActiveX control: 'Image Uploader 7' from 'Aurigma, Inc.'...

Click here to install the following ActiveX control: 'Image Uploader 7' from 'Aurigma, Inc.'...

Add Batch Information (All fields are optional)

Batch Name	<input type="text"/>	Location	<input type="text"/>
Photographer	<input type="text"/>	Contact	<input type="text"/>
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 ☐ Libraries
 ☐ Homegroup
 ☐ Network
 ☐ New folder
 ☐ roku_sdk_v28

☐ **New folder**

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	1980-1~IMG024 JPEG image, 8,990 Kb		020529JoeCtTree JPEG image, 244 Kb
	DSC_4611 JPEG image, 2,710 Kb		DSC_5188 JPEG image, 2,963 Kb
	DSC_5451 JPEG image, 4,355 Kb		DSC_5542 JPEG image, 4,299 Kb

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Batch Name	<input type="text" value="My Greatest Images Ever"/>	Location	<input type="text"/>
Photographer	<input type="text" value="Joe LaForest"/>	Contact	<input type="text" value="Harvey Bergman"/>
Subject	<input type="text"/>	Host	<input type="text"/>

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- Libraries
- Homegroup
- Network
- New folder
- roku_sdk_v28

New folder

Total files: 38, allowed: 35

	1979-1~IMG010 JPEG image, 7,255 Kb		1979-5 1980~IMG006 JPEG image, 6,364 Kb
	1980-1~IMG024 JPEG image, 8,990 Kb	<input checked="" type="checkbox"/> 	020529JoeCtTree JPEG image, 244 Kb
<input checked="" type="checkbox"/> 	DSC_4611 JPEG image, 2,710 Kb	<input checked="" type="checkbox"/> 	DSC_5188 JPEG image, 2,963 Kb
<input checked="" type="checkbox"/> 	DSC_5451 JPEG image, 4,355 Kb		DSC_5542 JPEG image, 4,299 Kb

☐ Files selected to upload: 7 ([clear all](#))

Upload

☒



☒



☒



☒



☒



Uploading files to server

Uploading files to server

Files uploaded 0/7 (1,017 Kb of 2,747 Kb)

Estimated remaining time: 00:05:23



Cancel

Details for batch 343 - My Greatest Images Ever



Subject:

[Edit](#)

Host:

Photographer: Joe LaForest

Comments: Contact: Harvey Bergman

Description:

Location:

File: DSC_4811.JPG



Subject:

Host:

[Cancel](#)

Photographer: Joe LaForest

Comments: Contact: Harvey Bergman

Description:

Location:

File: DSC_5188.JPG

Image Processing

- Reviewed for quality
- Matched to existing “Taxonomy”
- Sent for review by the photographer
- Published to the private or public side of the system

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Urban Ecology


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