





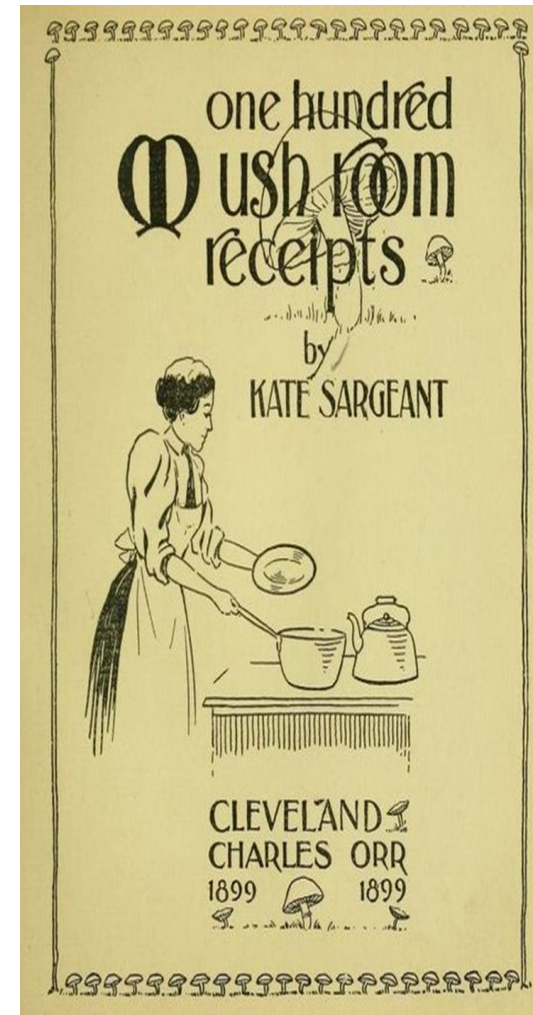
Wild Mushrooms

Catherine Feeney
Rhode Island Department of Health
September 15, 2021



History of Mushrooms

- Knowledge of mushrooms can be traced back 12000 years
- Use of mushrooms is recorded over the past 2000 years
- The 5000 year old 'Iceman' they found frozen in a glacier (named Otzi) was found carrying two species of mushrooms in his pouch



- Harvester Qualifications
- Where will mushrooms be sold
- Species
- Foraging location



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Wild Mushroom Harvester Application

The provisions at 3-201.16(A) of the 2018 RI Food Code (216-RICR-50-1) are clear that wild-harvested mushrooms may only be considered an approved source if the regulatory authority has approved them under its regulations.

Definition: A wild-harvested mushroom means a fresh mushroom that has been picked in the wild and has not been processed (e.g., dried). A wild-harvested mushroom does not include mushrooms that have been packaged in an approved food processing plant or cultivated mushrooms.

Name of Wild Mushroom Harvester:

Business Name:

Business Address:

City/Town State Zip

Email: Phone: Business Cell

Harvester Qualifications (please describe and attach certificate):

Name of Establishments where Wild Mushrooms will be sold:

Species of Wild Mushrooms Establishment is requesting to sell (please attach)

Location(s) of Harvest:



Harvester Record

- List of food establishments where mushrooms are sold
- Common name and scientific name of mushroom
- Location/county of harvest
- Date of harvest
- Date sold

Product Tag to Buyer

- Quantity sold
- Common name and scientific name of mushroom species
- Name and address of harvester
- Location/county of harvest
- Dates of harvest
- Accurate net weight statement

Disclaimer



The statement "*wild-harvested mushrooms: not an inspected product and is harvested from a non-inspected site*" should be on the label or tag provided to the buyer from the mushroom forager.



Laetiporus Sulphureus (Chicken of the woods)

Forager Qualifications



CERTIFICATE OF TRAINING
SPIKE'S A FUNGI
WILD MUSHROOM TRAINING CERTIFICATION

STEVEN (SPIKE) MIKULSKI

**HAS SUCCESSFULLY COMPLETED THE
SPIKE'S A FUNGI WILD MUSHROOM
CERTIFICATION COURSE.**

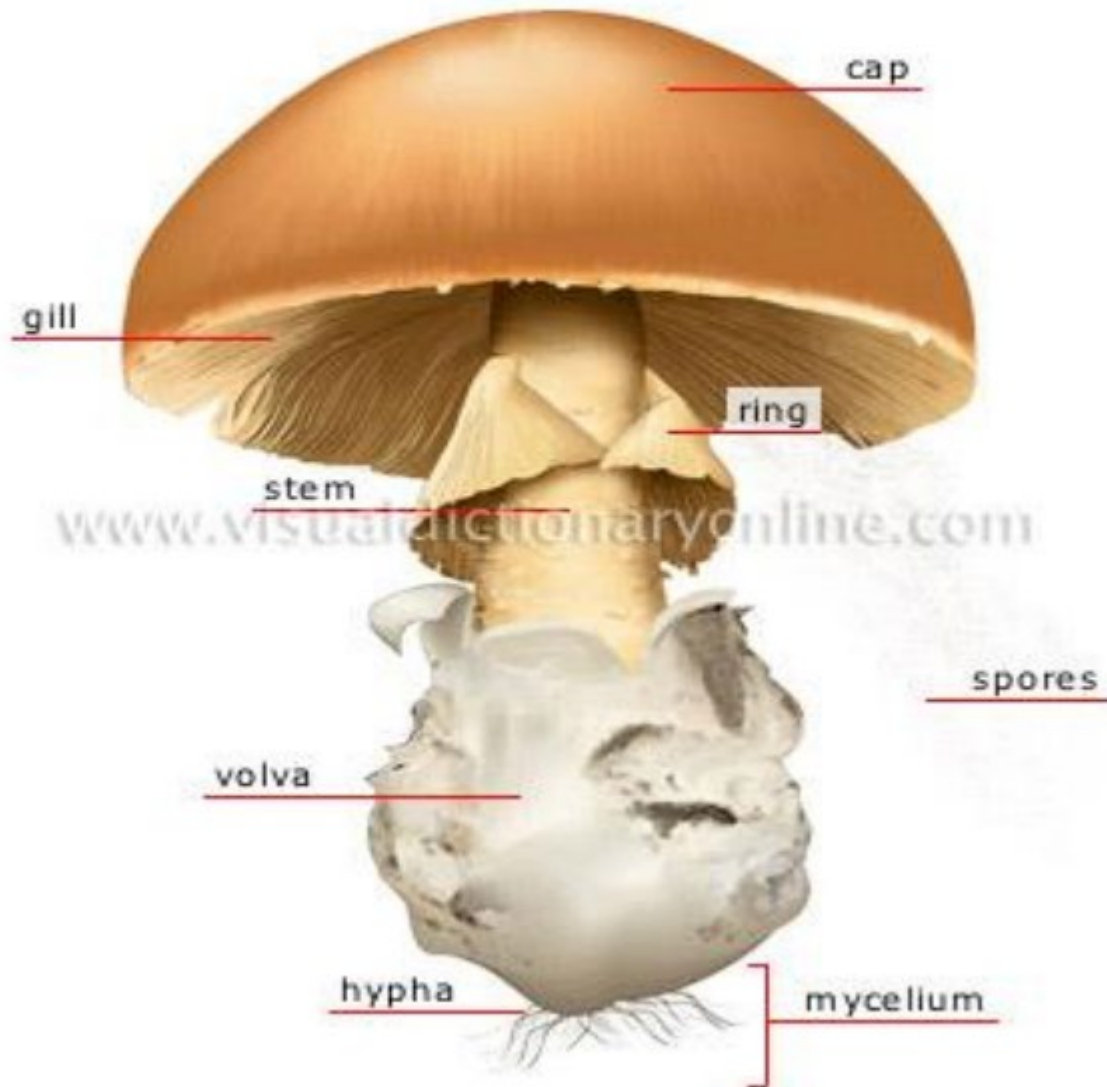
CERTIFICATE # 008-2021

TIER LEVEL THREE

EXPIRATION DATE 8, 1, 2026

SIGNED 
SPIKE MIKULSKI

Anatomy of a Mushroom



Points of Emphasis



- Beginners should not attempt to pick and/or consume any mushroom that cannot be confidently identified & known as edible.
- Wild harvested mushrooms should not show any signs of spoilage (rotten, soggy, mushy, slimy, moldy) and/or insect infestation.
- Mushrooms need to breathe and the packaging should have air holes or be made of a breathable

Toxic Mushrooms

- Toxins are produced naturally by mushrooms
- Toxin concentrations can vary within a mushroom (cap, gill, stem).
- Toxin concentrations can vary by geographic location.



Types of Toxicity



- Protoplasmic Amatoxins – Fast hitting abdominal pains, diarrhea, hepatic failure, coma, death. Honeymoon phase is common.
- Neurotoxins – sweating, coma, convulsions, hallucination
- Gastrointestinal Irritants – nausea, cramping, diarrhea
- Disulfiram-like toxins - no symptoms unless alcohol is consumed within 72 hours after eating them, in which case a short-lived acute toxic syndrome is produced. Also called Antabuse syndrome.

Cases of Mushroom Toxicity



Hundreds poisoned in France from wild mushrooms November 4, 2020 "Food Safety News"

Ontario 72 cases in 2020

Italy, Hong Kong, Victoria Australia also had outbreaks

July 2, 2021 "Food Safety News"
Thousands of outbreaks in China

Northern California 14 3 required liver transplants & a child had permanent neurologic impairment



The poisonous amanita phalloides is also known as the death cap mushroom.



Amanita penetratrix group (400144)

Oneco UMC, Sterling, Connecticut, USA
2019-08-25: Spike (Seditious)

Proposed name created by donjonson420: *Amanita cattaraugana*
Tulloss & Kudzma nom. prov.
last year, 2020-01-20



Amanita sect. *Amidella* (E.-J. Gilbert) Konrad & Maubl. (464045)

Glocester, Rhode Island, USA
2021-08-09: Spike (Seditious)

Comment updated by IGSafonov: Eastern Amidella
2 weeks ago, 2021-08-14



Amanita pachysperma G.F. Atk. (463886)

Scituate, Rhode Island, USA
2021-08-08: Spike (Seditious)

Observation Created
3 weeks ago, 2021-08-08



Amanita phalloides (Vaill. ex Fr.) Link (395024)

Reston, Virginia, USA
2019-12-01: Spike (Seditious)

Comment added by amanitarita: these are certainly phalloides.
last month, 2021-07-25

Locations



"Fort Apache", Lincoln Co., Nevada, USA (1)

"Quebrada La Miel", Envigado, Antioquia, Colombia (2)

"Spring Road Gulch", University of California Santa Cruz, Santa Cruz Co., California, USA (26)

"tortoise crossing", Santa Cruz Island, Galápagos, Ecuador (18)

"tree island" at the junction of Eastdown Rd. and Estevan Ave., Oak Bay, Victoria, British Columbia, Canada (1)

'Iliahi Trail, Hawai'i Volcanoes National Park, Hawaii, USA (1)

'S-Graveland, Netherlands (7)

0.7 km N of Medicine Lake Recreation Area, Alberta, Canada (1)

1 km al N Agua Caliente, Bosque La Primavera, Mpio. de Zapopan, Jalisco, Mexico (2)

1 mile from Glacier Point parking area on Panorama Trail towards Illilouette Falls, Yosemite, California, USA (2)

1 mile south of Weitchpec, Humboldt Co., California, USA (3)

1 mile southwest of Kumbrabow State Forest, Randolph Co., West Virginia, USA (1)

1 mile west of Ice House Reservoir, El Dorado Co., California, USA (1)

1.56 km E/1.19 km S of Corralito, Pilcaniyeu, Río Negro, Argentina (1)

10 miles SE of Agness, Rogue River Siskyou National Forest, Curry Co., Oregon, USA (7)

10 Orchard St., Greenwich, Ohio, USA (1)

100 block, 9th Ave. N, Jacksonville Beach, Florida, USA (1)

100 Brooks Ave., Raleigh, North Carolina, USA (1)

100 Kinnelon Rd., Kinnelon, New Jersey, USA (1)

100 S Northwest Highway, Park Ridge, Illinois, USA (1)

100' off Happy Isle Loop Rd., Yosemite National Park, California, USA (2)

https://afdo.org/resources_category/wild-mushrooms/



Wild Mushrooms

Below you will find important and relevant information about wild mushrooms including regulations, and other resources.



**Wild Mushrooms Laws and
Guidance**



Wild mushrooms resources

Wild mushrooms resources

CATEGORY: [WILD MUSHROOMS](#)

- [Wild Mushroom Identifier Course in Georgia](#)
- [Basics of Wild Harvested Mushroom Identification – San Francisco State University](#)
- [Farm-Grown, Cultivated Mushrooms – Kentucky Cabinet for Health and Family Services](#)
- [Food Code Fact Sheet: Wild Mushrooms – Oregon Health Authority](#)
- [Guidance Document for a Model Wild-Harvested Mushroom Program – Conference for Food Protection Wild-Harvested Mushroom Committee](#)
- [Inspection of Farm-Raised Mushroom Growers/Processors and Inspection of Wild Mushroom Harvesters – Virginia Department of Agriculture and Consumer Services](#)
- [Minnesota Food Code Rule Revision Wild Mushroom Advisory Workgroup Report](#)
- [Model Wild Mushroom Code](#)
- [Mushroom Farm Food Safety and Security Self-Assessment – Pennsylvania State University](#)
- [North American Mycological Association \(NAMA\)](#)
 - [Affiliated Clubs](#)
 - [Volunteer Toxicology Identification Consultants](#)
- [Wild Mushroom Buyer Verification – Oregon Health Authority](#)



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